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1978i Rahim & J.Y. Larsson. Field Document No. 10. FO:DP/AFG/74/016, Kabul.
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1978j Valley wildlife reserve by J.Y. Larsson. Field Document No. 1. FO:DP/AFG/78/007,  
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5. Suncus etruscus (Savi) pygmy white-toothed shrew  
Recorded from Kotal-e-Rabatak (Samangan, N.) (CN & JN).
6. Suncus murinus (Linnaeus) house shrew  
S. m. griffithi (Horsfield). Lower Kabul Valley and Nuristan.  
Jalalabad is the westernmost record for the species, in houses and open vegetation. Kunar (JN), Jalalabad, Laghman (JH).

## ORDER CHIROPTERA

## Family Rhinopomatidae

1. Rhinopoma hardwickei Gray lesser mouse-tailed bat  
R. h. hardwickei Gray. Jalalabad Valley III-V/67 (JG), Nangarhar, Kunar (E), small caves (MO), Chaunchir (Kandahar) (KZ), (VA).  
R. h. bactrianus Satunin. Northern Afghanistan, but not yet collected.
2. Rhinopoma microphyllum (Brünnich) larger mouse-tailed bat  
R. m. microphyllum. Arid regions of the Jalalabad Valley (JG). Nangarhar, Kunar (E), small caves (MO), Girishk, Farah (SW), Sham Chir (SE), (VA), (KZ).
3. Rhinopoma muscatellum Thomas  
R. m. seianum Thomas. Recorded from Sham Chir (SE) (KZ).

## Family Emballonuridae

1. Taphozous nudiventris Cretzschmar tomb bat  
T. n. kachhensis Dobson. Drier lowland areas, Lashkargah 990 m VIII/65 (MO), Chak Naur (Jalalabad Valley) IV/67 (JG).

## Family Megadermatidae

1. Megaderma lyra Geoffroy Indian false vampire  
M. l. lyra Geoffroy. Oriental species, Jalalabad Valley III/67 (JG), Kunar River (Qachgar Cave) (VA).

## Family Rhinolophidae

1. Rhinolophus blasii Peters Blasius' horseshoe bat  
Records from Laghman up to 2 000 m, Kabul, Parwan, Kandahar and Maimanah (JG), East Afghanistan (VA).
2. Rhinolophus clivosus Cretzschmar  
R. c. bocharicus Kastschenko and Akimov. One record from Maimanah (JG).
3. Rhinolophus ferrumeguinum (Schreber) greater horseshoe bat  
R. f. proximus Andersen. Recorded from Lalanda (20 km SSW of Kabul) V/67 (JG), (Lindberg), Kabul, Laghman (MO), Maimanah, Beltchiragh, Girishk (VA). (Southern specimen perhaps R. f. irani Cheesman).
4. Rhinolophus hipposideros (Bechstein) lesser horseshoe bat  
R. h. midas Andersen. Records up to 2 000 m from Jalalabad, Sarobi, Abdul Kheil (E) II, IV/67 and Lalanda (20 km SSW of Kabul) V/67 (JG), Qalat (Bolan Cave) (VA).

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5. Rhinolophus lepidus Blyth

R. l. monticola Andersen, 1905. Oriental species of eastern Afghanistan. Records from Jalalabad, Laghman, Parwan and Zabul (JG).

Family Hipposideridae

1. Hipposideros fulvus Gray

leaf-nosed bat

H. f. pallidus Andersen. Recorded from Laghman (JN) and Darunta in the Jalalabad Valley III/67 (JG).

2. Asellia tridens (Geoffroy)

trident leaf-nosed bat

A. t. tridens. Records from Seistan (VA), Dilaram, Farah and Kandahar (JG).

Family Vespertilionidae

1. Myotis blythi (Tomes)

lesser mouse-eared bat

M. b. oxygnathus (Monticelli). Scrub forest areas up to 2 700 m. Records from Ghazni, Nuristan (Baschgar Valley), Kabul, Maimanah, Qalat, and Beltchiragh (JG), Baschgar Valley (KZ).

2. Myotis emarginatus (Geoffroy)

notch-eared bat

M. e. desertorum (Dobson). More arid regions. Records from Kabul (JG).

3. Myotis formosus (Hodgson)

Hodgson's bat.

M. f. formosus. Oriental species. Recorded in Kalat-us-Seraj (E) VI, VIII/X/65 (MO).

4. Myotis longipes (Dobson)

long-fingered bat

Oriental species. Recorded from caves and tunnels in Jalalabad 650 m VII/65 and Pialeh Cave (E) 1 550 m VIII/61 (MO).

5. Myotis mystacinus (Kuhl)

whiskered bat

M. m. meinertzhageni Thomas. One record from Kabul (JG).

6. Pipistrellus babu Thomas

Himalayan pipistrelle

Oriental species. Records from Jalalabad 650 m and Kalat-us-Seraj (E) 900 m X/65 (MO).

7. Pipistrellus coromandra (Gray)

Indian pipistrelle

P. c. coromandra. Quite plentiful in the Kabul Valley near human habitations in Jalalabad III/65, III, IV/67, Dar-i-Nur (Kunar Valley) 2 000 m III/67 (JG).

8. Pipistrellus kuhli (Kuhl)

Kuhl's pipistrelle

Steppe areas. Records from Kandahar, Dilaram (S), Khost (E) (MO), Jalalabad IV, V/67 (JG), Kandahar (Blyth, 1845).

9. Pipistrellus mimus Wroughton

Indian pygmy pipistrelle

P. m. glaucillus Wroughton. Oriental species of the wooded regions. Recorded from Kala-i-Shahi (Nangarhar) 850 m VIII/61 (MO).

10. Pipistrellus pipistrellus (Schreber)

common pipistrelle

P. p. aladdin Thomas. Human habitations, northern Afghanistan. Kunduz IX/65, V/67 and Baghlan V/67 (JG).

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in the Kabul environment, Afghanistan)

11. Nyctalus leisleri (Kuhl) lesser noctule  
Recorded from Ismael Khel (E), 1 340 m V/63 (MO).
12. Nyctalus montanus (Barrett-Hamilton) mountain noctule  
Collected in Ismael Khel (E) 1 340 m (MO) and Jalalabad III/67 (JG).
13. Eptesicus bottae (Peters)  
E. b. ognevi Bobrinskii. Records from Faizabad (NE) and probably Kabul (JG).
14. Eptesicus nasutus (Dobson) Sind bat  
E. n. nasutus. Jalalabad III, IV/67 (JG).
15. Eptesicus serotinus (Schreber) common serotine  
E. s. pashtomus Gaisler. Roost in fissures of buildings. Recorded from Jalalabad IV/67 (JG).  
E. s. turcomanus (Eversmann). Recorded from Faizabad (NE) (Kuzakin, 1950) and Kunduz V/67 (JG).
16. Vespertilio murinus Linnaeus. particoloured bat  
V. m. murinus. Recorded from Afghanistan (Corbett, 1978).
17. Otonycteris hemprichi Peters Hemprich's long-eared bat  
O. h. cinerea Satunin. Upland steppes and mountains. Record from Neuabad-Bagrami (Kabul Province) VII/63 (MO).
18. Scotophilus heathi (Horsfield) desert scotophil  
S. h. heathi. Oriental species, often near human habitation. Recorded from Jalalabad IX/64, VII/65, III, IV/67 (JG).
19. Barbastella leucomelas (Cretzschmar) Asian barbastelle  
B. l. darjelingensis (Hodgson). Forested mountains. Recorded from Wazir Bagh 1 240 m (Paktya) VII/65 and Kalat-us-Seraj (E) IX/65 (MO).
20. Plecotus austriacus (Fischer) grey long-eared bat  
P. a. wardi Thomas. Woodlands up to 2 700 m. Recorded from Kabul and Bamian II/65 (JG), Kabul VI/53 (KZ), Parwan (Lindberg), Qoul Kharideh (75 km W of Kabul) (VA).
21. Miniopterus schreibersi (Kuhl) long-winged bat  
M. s. fuliginosus (Hodgson). Recorded from Jalalabad (MO), II/66, III, V/67 (JG).  
M. s. pallidus Thomas. Arid mountainous regions. Chamchir Cave (Kandahar) (VA).

## Family Molossidae

1. Tadarida aegyptiaca (Geoffroy) Egyptian free-tailed bat  
T. a. sindiaca Wroughton. Recorded from Kabul VII/62, IX/65 (MO).
2. Tadarida teniotes (Rafinesque). European free-tailed bat  
T. t. teniotes. Recorded from Kabul VI/62 (MO).

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## ORDER PRIMATES

## Family Cercopitheciidae

1. Macaca mulatta (Zimmermann) rhesus macaque  
Montane forests of monsoonal Afghanistan. Recorded from the Pech Valley, Laghman, Nuristan (KH), Paktia, Bashgal Valley (Ellermann and Morrison Scott, 1951).

## ORDER LAGOMORPHA

## Family Ochotonidae

1. Ochotona rutila (Severtzov) Turkestan red pika  
Recorded from northern Afghanistan, east to the Pamirs, over 2 000 m (Corbett, 1978), also from Khwahan (Darwaz) (CN & JN).
2. Ochotona roylei (Ogilby) large-eared pika  
(including O. macrotis (Günther)). Montane steppes of the Pamirs and Nuristan between 2 000 and 4 800 m elevation. Recorded from Wakhan, and Big Pamir, between 4 000 and 4 800 m (CN), Big and Small Pamir (RP), southern Badakhshan (JH), western Nuristan (RP), Stiewe and Weran Passes 3 350 m (KP). Sight records from the Salang Pass (Madge, 1970) probably refer to O. rufescens.
3. Ochotona rufescens (Gray) Afghan pika  
O. r. rufescens. Montane steppes of the Hindu Kush Mountains, west to Herat, between 1 000 and 3 500 m altitude. Reported from Shibar Pass and around the Sawzak Pass (JH), Gardez, Dashte Nawar, Unai Valley, Paghman, Bande Amir, Salang and Herat (JN), Paghman (KZ).

## Family Leporidae

1. Lepus capensis Linnaeus Cape hare  
L. c. tibetanus Waterhouse. Common throughout Afghanistan except in the monsoonal east where L. c. ruficaudatus Geoffroy is found. Recorded from the Pamir and Wakhan (CN), Sarobi, Kabul, Istalif, Dashte Nawar (JN), Herat, Seistan and Sabzak Pass (KH).

## ORDER RODENTIA

## Family Sciuridae

1. Petaurista petaurista (Pallas) common giant flying squirrel  
P. p. albiventer (Gray). Evergreen oak and conifer forest. One record from Pech river, 1 000 m Nuristan (JN).
2. Hylopetes fimbriatus (Gray) smaller Kashmir flying squirrel  
H. f. baberi (Blyth). Locally abundant in evergreen monsoonal oak and conifer forest between 1 600-3 500 m elevation. Records from Pech river 1 000 m (JN), Nyrow, Kohistan (Khost ?) (Blyth, 1847), Peiwar Kotal (Blanford, 1881).



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Appendix 10

## BIBLIOGRAPHY - SUBJECTS

## I. GEOGRAPHY

GeneralNatural Sites

1. Ab-i-Estada
2. Dashte Nawar
3. Seistan, Hamun-i-Puzak
4. Registan and Kandahar
5. Hindu Kush
6. Pamir and Wakhan
7. Nuristan, Laghman, Safed Koh, etc.
8. Kote Hashmat Khan, Kabul, Qargah, etc.
9. Lower Kabul Valley, Jalalabad Valley
10. Ajar Valley
11. Bande Amir, Bamian
12. Amu Darya Valley, Darqad and West Badakhshan
13. Turkestan, Herat

## II. DEMOGRAPHY

## III. PHYSICAL ENVIRONMENT

ClimateGeology and SoilsArchaeology

## IV. GENETIC RESOURCES

## V. ENVIRONMENT

GeneralIrrigationForestryRange ManagementEconomyNational Parks, including Legislation and TourismHunting and Fur Trade

## VI. BIBLIOGRAPHY

## VII. MAPS

## VIII. VEGETATION

AfghanistanGeneral

## IX. FAUNA

Mammals

1. Afghanistan
2. Regional (general)
3. Regional
4. Ungulates
5. Carnivores
6. Small Mammals

Birds

1. Afghanistan
2. Regional
3. Waterfowl
4. Migration and Bird-ringing

Reptiles and AmphibiansLower Animals

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Barth, F., 1967; Bulbul, S.P.D. & V.I. Masalov, 1964; Calembert, J., & L.R.N. Strange, 1978; FAO, 1973a; FAO, 1974a; FAO, 1974d; FAO, 1977; FAO, 1980b; FAO, 1980c; Ferdinand, K., 1962; Ferdinand, K., 1976; Imankulov, M.I., 1969; Jentsch, C., 1973; Lapparent, A.F., 1970; Keshtyar, M., 1970; McArthur, I.D. & G.N. Harrington, 1978; McArthur, I.D., Sayed, S. & H. Navem, 1979; McClure, B., 1979; Nuri, J.M., 1961; Pabot, H., 1959; Pabot, M., 1967; Rako, A. & J. Cizek, 1977; Shahrani, M.M.N., 1976; Strand, R.F., 1975; Synnot, T.J., 1978; Tapper, R., 1974; Woodford, M.H., 1978; Yalcin, B.C., 1979.

### Economy

Afghanistan, 1959; Afghanistan, Central Statistic Office, 1978; Afghanistan, Ministry of Planning, 1979; Aitchison, J.E.T., 1890; Barth, F., 1975; Bulbul, S.P.D. & V.I. Masalov, 1964; Economist Intelligence Unit, 1979, 80; Electrowatt & Norconsult; Eskilsson, E., 1966; FAO, 1969a; Ferdinand, K., 1962; Fox, C.S., 1936; Inskipp, T. & S. Wells, 1979; Irwin, Lieut., 1839; Janata, A., 1963; Krans, W., 1972; McArthur, I.D., S. Sayad & M. Nawin, 1979; Michels, A.A., 1959; Pelt, J.H., J.C. Hayon & M.C. Younos, 1965; Royal Afghan Government, 1958; Soheibe, A., 1937; Smith, H.H. & others, 1973; Société d'Etudes et d'Informations économiques, 1932; Sterling, T., 1971; Strand, R.F., 1975; United States Department of Commerce, 1946; Vavilov, N.I., & D.D. Bukinich, 1929; Volk, O.H., 1954; Volk, O.H., 1955; Woodford, M.H., 1978; World Bank, 1978.

### National Parks, including Legislation and Tourism

Afghanistan, Central Statistic Office, 1975; FAO, 1970, 71; FAO, 1973d; FAO, 1974b; FAO, 1974c; FAO, 1977a; FAO, 1977e; FAO, 1977f; FAO, 1978c; FAO, 1978f; FAO, 1978g; FAO, 1978i; FAO, 1978h; FAO, 1980a; Faymann, T., 1976; IUCN, 1975; Vos, A. de, C. Eilean & G. Haghighat, 1977.

### Hunting and Fur Trade

Ahlemann, H., 1970; Büttiker, W., 1959; Inskipp, T. & S. Wells, 1979; FAO, 1973d; FAO, 1973e; FAO, 1974b; FAO, 1976b; FAO, 1977a; FAO, 1977d; FAO, 1977f; FAO, 1978c; FAO, 1978e,f; FAO, 1980a; Niethammer, G., 1972; Niethammer, J., 1967e; Nogge, G., 1973; Nogge, G. & J. Niethammer; Petocz, R.G., 1973d; Poncins, E.D., 1895.



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## VII MAPS

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## VIII VEGETATION

Afghanistan

Adye, Col. J., 1867; Apachanjanc, O.E., 1958; Agachanjanc, O.E., 1960; Agachanjanc, O.E., 1961; Agachanjanc, O.E., 1964; Aitchison, J.E.T., 1879; Aitchison, J.E.T., 1881-82; Aitchison, J.E.T., 1880; Aitchison, J.E.T., 1888; Aitchison, J.E.T., 1889b; Aitchison, J.E.T., 1890; Akram, M. 1967; Annandale, N. & H.G. Carter, 1919; Béranger-Beauguesne, L., 1956; Bharucha, F.R., 1955; Bornmüller, J., 1934; Breckle, S.W., 1971; Breckle, S.W., 1973; Breckle, S.W. & W. Frey, 1974; Breckle, S.W., W. Frey & I.C. Hedge, 1969; Bretzl, H., 1903; Burnes, Sir A., 1843; Chuma, T., ed, 1970; Dieterle, A., 1973; Diver, M., 1935; Duokelmann, R. von, 1951; Edelberg, L. & Schuyler, 1978; FAO, 1958; FAO, 1959; FAO, 1976c; FAO, 1977e; FAO, 1977f; FAO, 1978d; FAO, 1978h; FAO, 1978i; FAO, 1978j; Ferrier, J.P., 1976; Freisleben, R., 1941; Freitag, H., 1971a; Freitag, H., 1971b; Freitag, H., 1972; Frey, W., 1967; Frey, W., 1968; Gilbert, O.L., 1968a; Gilbert, O.H., 1968b; Gilli, A., 1954-64; Gilli, A., 1961-62; Gilli, A., 1962-64; Gilli, A., 1969; Gratzl, K., ed., 1970; Haeckel, I. & W. Troll, 1938; Hassanyar, A.S., 1973a; Hassanyar, A.S., 1973c; Hassanyar, A.S., 1977; Hassinger, J.D., 1968; Hayon, J.C., G. Kilbertus & J.M. Pelt, 1970; Hayon, J.C., Pelt, J.M., & M.C. Younos, 1968; Hayon, J.C., J.M. Pelt & M.C. Younos, 1970; Hedge, I.C., 1960-68; Hedge, I.C., 1963; Hedge, I. & P. Wendelbo, 1963; Hedge, I. & P. Wendelbo, 1970; Humlum, J., 1959; Jaffri, S.M.H., 1954; Kerstan, G., 1937; Keshtyar, M., 1970; Khan, M.I.R. & A.R. Beg, 1968; Kitamura, S., 1956-58; Kitamura, S., 1963; Kitamura, S., 1960; Kitamura, S., 1964; Koeie, M. & K.H. Reehinger, 1954-65; Kümmler, M.L., 1969; Kyoto University, 1960-65; Lalande, P., 1967; Lalande, P., 1968a; Lalande, P., 1968b; Lalande, P., 1968c; Lapparent, A.F., 1970; Lange, de la Camp, M., 1939; Linchevski, I.A., 1946; Linchevski, I.A. & A.V. Prozorovskii, 1944; Linchevsky, I.A. & A.V. Prozorovsky, 1949; McClure, B., 1979; Moher-Homji, V.N., R.K. Gupta & H. Freitag, 1973; Muss, M. 1978; Nedyalhov, S.T., 1978a; Nedyalhov, S.T., 1978b; Neubauer, H.F., 1951; Neubauer, H.F., 1954a; Neubauer, H.F., 1954b; Neubauer, H.F., 1954c; Nuri, J.M., 1961; Paludian, K., 1959; Pelt, J.M., Hayon, J.C. & M.C. Younos, 1968; Pelt, J.M., Hayon, J.C. & M.C. Younos, 1969;

Pelt, J.M., Hayon, J.C. & M.C. Younos, 1970a; Pelt, J.M., Hayon, J.C. & M.C. Younos, 1970b; Podleoh, D., 1967-69; Petrak, F., 1963; Rathjens, C., 1974; Poelt, J. & V. Wirth, 1968; Rathjens, C., 1968-69; Rathjens, C., 1972; Reehinger, K.H., 1949; Reehinger, K.H., 1963; Reehinger, K.H. & M. Koie, 1954-63; Reehinger, K.H. & H. Riedl, 1961-62; Riemer, E., 1938; Roemer, H., 1965; Rozhkova, O., 1965; Senarolans de Granoy, R. & R. Kostka, 1978; Tate, G.P., 1910; Vavilov, N.I. & D.D. Bukinich, 1924; Volk, O.H., 1951; Volk, O.H., 1954; Wendelbo, P., 1952; Wendelbo, P., 1963; Wendelbo, P., 1964; Wendelbo, P., 1966a; Wendelbo, P., 1966b; Wendelbo, P., 1969; Wendelbo, P. & J. Hedge, 1963; Yate, C.E., 1888.

### General

Bobek, H., 1951; Champion, Sir H.G., S.K. Seth & G.M. Khattak, 1966; Davis, P.H., P.C. Harper & I.C. Hedge, 1971; Floyer, E.A., 1977; Morden, W., 1927; Oedekoven, K., 1964; Pabot, H., 1961; Raven, P.M., 1971; Reehinger, K.H., 1961-68; Reehinger, K.H., 1965; Riedl, H., 1963; Schweinfurth, U., 1957; Troll, C., 1967; Waller, H., 1974; Wendelbo, P., 1969; Wendelbo, P. & P. Furse, 1968; Went, F.W. & V. Ramesh Babu, 1978; Zohary, W., 1963.

## IX FAUNA

### Mammals

#### 1. Afghanistan

Aitchison, J.E.T., 1889a; Adye, Col. J: Sitana, 1867; Blandford, W.T., 1876; Burnes, Sir A., 1843; Dunmoor, The Earl of, 1894; Edelberg, L. & Schuyler, 1978; FAO, 1973d; Ferrier, J.P., 1976; Gaisler, G., 1975; Gaisler, J., D. Povolny, Z. Sebek & F. Tenora, 1968; Humlum, J., 1959; Kullmann, E., 1970; Kyoto University, 1960-65; Naumann, C.M., 1978; Povolny, D., 1967; Reinig, W.F., 1932; Senarolans de Granoy, R. & R. Kostka, 1978; Sharpe, R.B., 1889; Tate, G.P., 1910; Third Danish Expedition to Central Asia; Yate, C.E., 1888.

#### 2. Regional (general)

Adlen, V., 1959; Ahlemann, H., 1970; Barnus, V. & F. Tenora, 1967; Blan Blandford, W.T., 1881; Brooke, V., Brooke, B., 1875; Cotton, W.B., 1914; Cumming, J.W.N., 1905b; De La Tour, G.D., 1975; Dupree, L., 1956; Dupree, L., 1958; Dupree, L., 1973; FAO, 1970, 71; FAO, 1973f; FAO, 1975d; FAO, 1975e; FAO, 1976b; FAO, 1976f; FAO, 1977a; FAO, 1978e; Ferrier, J.P., 1976; Gaisler, J., 1970a; Gaisler, J., 1970b; Gaisler, J., 1971; Gaisler, J., 1975; Gaisler, J., D. Povolny, Z. Sebek & F. Tenora, 1967; Gillan, G.V.B., 1934; Grote, H., 1951; Groves, C.P. & V. Mazak, 1967; Hanak, V. & J. Gaisler, 1969; Hassinger, J.D., 1968; Hassinger, J.D., 1970a; Hassinger, J.D., 1970b; Hay, R.G., 1840; Hutton, I., 1842a; Hutton, I., 1842b; Hutton, I., 1842c; Hutton, I., 1845; Johnstone, Gavin, 1968; Kullmann, E., 1965; Kullmann, E., 1967; Kullmann, E., 1968; McDonald, W., 1968; Meyer-Oehme, D., 1965; Meyer-Oehme, D., 1968; Murray, J.A.; Murray, J.A., 1887; Neklenburtzer, R.N., 1948; Naumann, C., 1973; Naumann, C. &

3. Spermophilopsis ptodactylus (Lichtenstein) long-clawed ground squirrel  
S. l. bactrianus Scully. Northern and northwestern Afghanistan in loess, steppe habitats below 1 000 m elevation. Records from Shibergan, Karam Kol (30 km W of Kunduz) (JN), Kunduz, Mazar-i-Sharif, Maimanah, Herat (JH), Khamiab (Scully, 1888).
4. Marmota caudata (Jacquemont) Long-tailed marmot  
M. c. aurea (Blanford). Wakhan, Pamir.  
M. c. dichrous (Anderson). Hindu Kush, north of Kabul. Common throughout sub-alpine and alpine biotopes of Afghanistan, between 2 500 and 4 000 m elevation. Plentiful at Dashte Nawar (JN), and Pamir and valley heads in Nuristan (RP).
5. Spermophilus fulvus Lichenstein Large-toothed souslik  
(Synonym Citellus fulvus). Northwestern and southeastern Afghanistan, sandy steppes and alpine meadows between 1 000-3 500 m elevation. Records from 30 km W of Herat, Dashte Nawar, Ab-i-Estada, Mukur-Ghazni (JN).

## Family Cricetidae

1. Calomyscus bailwardi Thomas mouse-like hamster  
C. b. musteri Ellerman. Widely distributed between 400 and 3 500 m elevation in the arid mountains and surrounding steppes but not in Wakhan. As abundant in evergreen oak forest as in the barren hills north of Kandahar and the Jalalabad Valley.
2. Cricetulus migratorius (Pallas) migratory hamster  
Throughout the country between 400 and 3 600 m elevation; common in dry rocky and open areas.
3. Alticola roylei (Gray). Royle's mountain vole  
A. r. roylei. Hindu Kush and Pamir mountains between 2 000 and 4 300 m elevation, typical for areas with rocky slopes. Recorded from Wakhan (JH), Big Pamir (CN), Paghman, N. Salang, W. Panajir (JN), Shibar Pass (C) and Ishkashem (N) (JH), Do Schak (W Salang, C) (KZ).
4. Pitymys afghanus (Thomas) Afghan vole  
P. a. afghanus. Common in eastern, central and northwestern Afghanistan on high montane meadows along water courses. Recorded from Gulran (NW) (Thomas, 1912), Herat, Kabul, Shibar Pass, Dashte Nawar, Unai Pass (C), Salang (JN), Shibar Pass (C) and Sabzak Pass (W) (JH).
5. Pitymys juldaschi (Severtzov) Pamir vole  
Wakhan, Pamir and Kohe Baba (C) montane meadows above 2 000 m elevation. Recorded from Panjao (C) (KP), Qala Panja (Wakhan) and Tohbai (Big Pamir), Aksu (Small Pamir) (RP) (CN), Faizabad (NE) (JH).
6. Microtus socialis (Pallas) social vole  
Montane valleys. Kabul (JN), Afghan Turkestan (Scully, 1887), (JH), Chilzai (C) (KP).
7. Microtus transcaspicus Satunin Transcaspiian vole  
Montane meadows of the Hindu Kush above 2 000 m. Paghman, Unai Pass (C) (JN), Shibar Pass (C) (JH), (Chaworth-Musters).

G. Niethammer, 1973; Naumann, C. & J. Niethammer, 1975; Naumann, C. & G. Nogge, 1973; Nauroz, M.K. & C.M. Naumann, 1975; Neuhauser, H.N. & A. De Blase, 1974; Niethammer, G. & J., 1967b; Niethammer, J., 1965; Niethammer, J., 1966b; Niethammer, J., 1967c; Niethammer, J., 1967d; Niethammer, J., 1967e; Niethammer, J., 1969a; Niethammer, J., 1969b; Niethammer, J., 1970b; Niethammer, J., 1973a; Niethammer, J., 1973b; Niethammer, J. & Martens, 1975; Nogge, G., 1972; Nogge, G., 1974; Paludan, K., 1948-49; Petocz, R.G., 1971; Petocz, R.G., 1972; Petocz, R.G., 1973a; Petocz, R.G., 1973b; Petocz, R.G., 1973c; Petocz, R.G., 1973d; Poincins, E.D., 1895; Povolny, D., 1966; Richter, H., 1970; Schneider, P., 1968; Souilly, J., 1881; Souilly, J., 1887; Senarclans de Granoy, R. & R. Kostka, 1978; Sharpe, R.B., 1889; Transter, P., 1868; Zimmermann, K., 1955; Zimmermann, K., 1956.

### 3. Regional

Adams, L., 1858; Aleem, A., 1976; Ali, S., 1949; Blyth, E., 1840; Blyth, E., 1841; Bobrinski, N.A., B.A. Kusnezov & A.P. Kusjakin, 1965; Burgess, R.L., A. Moktarzadeh & L. Cornwallis, 1966; Carruthers, D., 1909; Carruthers, D., 1949; Clark, J.L., 1964; Collias, N.E., 1956; Corbet, G.B., 1978; Danford, G. & E.R. Alston, 1877; De Blase, A.P., 1971; Ellerman, J.R., 1948; Ellerman, J.R., 1961; Ellerman, J.R. & L.L. Chaworth-Musters, 1947-48; Ellerman, J.R. & T.C.S. Morrison-Scott, 1951; Etemad, E., 1968; Felten, H., 1962; Felten, H., 1964; Geist, V., 1971; Gladkov, N.A. & A.A. Nasimovich, 1968; Gorges, M., 1966; Groves, C.P., 1969; Guggisberg, C.A.W., 1975; Harrison, D.L., 1964; Heptner, H.G., 1937; Heptner, V.G., 1961; Hill, J.E., 1961; Holloway, C.L., 1975; Inskipp, T. & S. Wells, 1979; IUCN, 1978; Kus'alin, A.P., 1950; Lay, D.M., 1967; Lay, D.M., J.A.W. Anderson & J.D. Hassinger, 1970; Lindsay, H.M., 1929; Lydekker, R., 1898; Misonne, X., 1959; Nadler, C.F. et al., 1971; Nadler, C.F. et al., 1973; Nasimovitch, A. A., 1955; Nasimovich, A.A., 1970; Ognev, S.I., 1962-67; Petter, F., 1961a; Petter, F., 1961b; Pfeffer, P., 1967; Pocock, R.I., 1947; Pocock, R.I., 1951; Prater, S.H., 1965; Richter, H., 1970; Roberts, T.J., 1969; Roberts, T.J., 1977; Schaller, G.B. & S.A. Khan, 1975; Schaller, G.B. & Z.B. Mirza, 1971; Short, R.V., 1976; Siddiqui, M.S., 1961; Scholov, I.I. ed., 1963; Taber, R.D. & R.S. Hoffmann, 1963; Talbot, L.M., 1960; Thomas, O., 1905; Thomas, O., 1912; Tsalkin, V.I., 1951; Vinogradov, B.S., 1928; Vinogradov, B.S. & A.I. Argiropula, 1941; Walker, E.P., 1964; Ward, R., 1914.

### 4. Ungulates

Ahlemann, H., 1970; Blyth, E., 1840; Blyth, E., 1941; Brooks, V., Brooks, B., 1875; Carruthers, D., 1909; Carruthers, D., 1949; Cotton, W.B., 1914; Cumming, J.W.N., 1905b; De La Tour, G.D., 1975; Dor, R., 1976; FAO, 1975d; FAO, 1975e; FAO, 1976b; FAO, 1977a; FAO, 1977b; FAO, 1978e; Gillan, G.V. B., 1934; Groves, C.P., 1969; Groves, C.P. & V. Mazak, 1967; Hay, R.G., 1840; Holloway, C.L., 1975; Hutton, I., 1842a; Hutton, I., 1842b; Hutton, I., 1842c; Kullmann, E., 1965; Kullmann, E., 1968; Lydekker, R., 1898; McDonald, H., 1968; Meklenburtser, R.N., 1948; Nadler, C.F. et al., 1971; Nadler, C.F. et al., 1973; Naumann, C., 1973; Nauroz, M.K. & C.M. Naumann, 1975; Petocz, R.G., 1971; Petocz, R.G., 1972; Petocz, R.G., 1973a;

Petocz, R.G., 1973b; Petocz, R.U., 1973c; Pocock, R.I., 1947; Poinins, E. D., 1895; Roberts, T., 1969; Sohaller, G.B. & S.A. Khan, 1975; Sohaller, G.B. & Z.D. Mirza, 1971; Short, R.V., 1976.

## 5. Carnivores

Abbott, J., 1884; FAO, 1973f; Gaisler, J., D. Povolny, Z. Sebek & F. Tenora, 1968; Guggisberg, C.A.W., 1975; Kullmann, E., 1965; Kullmann, E., 1967; Naumann, C. & J. Niethammer, 1975; Niethammer, G. & J. 1967b; Niethammer, J., 1966b; Pocock, R.I., 1951; Povolny, D., 1966.

## 6. Small Mammals

Adlen, V., 1959; Barus, V. & F. Tenora, 1967; Blanford, W.T., 1881; Ellerman, J.R. & J.L. Chaworth-Musters, 1947-48; Felten, H., 1962; Felten, H., 1964; Gaisler, J., 1970a; Gaisler, J., 1970b; Gaisler, J., 1971; Gaisler, J., 1975; Gaisler, J., D. Povolny, Z. Sebek & F. Tenora, 1967; Hanak, V. & J. Gaisler, 1969; Hassinger, J.D., 1970; Heptner, W.G., 1937; Hill, J.E., 1961; Klapperich, J., 1954; Lindberg, K., 1961; Meyer-Oehme, D., 1965; Meyer-Oehme, D., 1968; Naumann, C. & J. Niethammer, 1975; Neuhauser, H.N. & A. De Blase, 1974; Niethammer, J., 1965; Niethammer, J., 1967c; Niethammer, J., 1967d; Niethammer, J., 1969a; Niethammer, J., 1969b; Niethammer, J., 1970b; Niethammer, J., 1973a; Niethammer, J., 1973b; Niethammer, J. & J. Martens, 1975; Petocz, R.G., 1973; Petter, F., 1961; Richter, H., 1970; Thomas, O., 1912; Zimmermann, K., 1956.

## Birds

### 1. Afghanistan

Abbott, J., 1884; Akhtar, S.A., 1946; Akhtar, S.A., 1947; Akhtar, S.A., 1955; Aslanow, M.G., 1953; Baker, E.C.S., 1919; Barnes, H.E., 1880; Barnes, H.E., 1881; Blyth, E., 1847; Bowdler Sharpe, R., 1891; Burton, P.J.K., 1971; Büttiker, W., 1959; Carruthers, D., 1949; Christison, A.F.P., 1941; Cumming, J.W.H., 1905a; Dementiev, G., 1963; FAO, 1975a; FAO, 1975b; FAO, 1975c; FAO, 1976a; FAO, 1976e; FAO, 1976f; FAO, 1977a; FAO, 1977e; Finn, F., 1896; Griffith, W., 1947; Horsfield, T. & F. Moore, 1854; Hua, F. & R.D. Stehcooper, 1970; Hutton, T., 1847; Johnstone, C., 1968; Kerstan, G., 1937; Klockenhoff, H. & Madel, G., 1970; Koelz, H., 1939; Koelz, 1949; Koelz, H., 1950; Koelz, H., 1954; König, F.J., 1972; König, F.J. & L.J. Dyksen, 1971; König, F.J. & L.J. Dyksen, 1972; König, F.J. & J. Rooth, 1975; König, F.J. & J.G. Walmsley, 1972; Kuhnert, G., 1971; Lohrl, H. & G. Thielcke, 1969; Marien, D., 1950-51; Meinertzhagen, R., 1938; Meinertzhagen, R., 1939; Murray, J.A.; Murray, J.A., 1887; Musson, C., 1974; Naumann, C., 1974; Niethammer, G., 1966; Niethammer, G., 1967; Niethammer, G., 1968; Niethammer, G., 1971; Niethammer, G., 1972; Niethammer, G., 1973; Niethammer, G. & J., 1967a; Niethammer, G. & J., 1967c; Niethammer, J., 1966a; Niethammer, J., 1967a; Niethammer, J., 1967b; Niethammer, J., 1970a; Nogge, G., 1969; Nogge, G., 1972; Nogge, G., 1972;

Nogge, G., 1973a; Nogge, G., 1973b; Nogge, G., 1974; Nogge, G. & J. Niethammer; Orkel, G., 1972; Paludan, K., 1959; Pimms, S.L., 1968; Potapov, R.L., 1963; Puget, A., 1969; Puget, A., 1970a; Puget, A., 1970b; Puget, A., 1971; Reeb, F., 1977; Savage, C., 1968; Soehde, A., 1937; Soott, D.A., 1975; Soullly, J., 1887; Severtsov, N.A., 1883; Sharpe, R.B., 1889; Sharpe, R.B., 1891; Smith, E.C., 1974; St.John, O.S., 1889; Swinhoe, C., 1882; Thiollay, J.M., 1978; Tong, N., 1968; Vasio, V.F., 1974; Vaurie, C., 1949-51; Viellard, J., 1969; Vigne, G.T., 1843; Wardlaw-Ramsey, R.G., 1879-80; Whistler, H., 1944-45; Wood, B., Madge, S.C. & C.S. Waller, 1978; Yates, C.E., 1900; Zarudny, N.A., 1926.

## 2. Regional

Ali, Salim, 1972; Ali, S. & S. D. Ripley, 1970; Arohibald, G., 1975; Biswas, B., 1950; Burgess, R.L., A. Maktarzadeh & L. Cornwallis, 1966; Chirstison, A.F.P., 1940; Cramp, S., e.o., 1977, 80; Dementiev, G.P. & N.A. Gladkov, 1951-56; Etohecooper, R.D., 1969; FAO, 1976d; Fulton, N.T., 1904; Fulton, H.T., 1905; Futehally, Z., J.C. Daniels & P.V. Bole, 1971; Inskipp, T. & S. Wells, 1979; Isakov, Yu. A. & T.P. Shevareva, 1967; IUCN, 1978, 79; Ivanov, 1969; Kear, J. & N. Duplaix-Hall, 1975; McClure, M.E., 1974; Peterson, R., Mountfort, G. & P.A.D. Hollum, 1974; Santapau, H., Z. Futehally & J.C. Daniels, 1969; Sohúz, E. & W. Gehlhoff, 1967; Scott, D.A., 1975; Scott, D.A. et al, 1975; Severtzov, N.A., 1887; Severtzov, N.A. & M.A. Menzbier, 1894; Strasseman, E. & L.A. Portenko, 1967; Vaurie, C., 1965; Voous, K.M., 1973, 77; Whistler, H., 1949; Whitehead, C.H.T., 1909.

## 3. Waterfowl

Akhtar, S.A., 1947; Brown, L.H., 1975; Burton, P.J.K., 1971; FAO, 1975b; FAO, 1976a; FAO, 1976d; FAO, 1976e; FAO, 1977e; Isakov, Yu. A. & T.P. Shevareva, 1967; Kear, J. & N. Duplaix-Hall, 1975; Klookenhoff, H. & Madel, G., 1970; Koning, F.J. & L.J. Dyksen, 1972; Koning, F.J. & L.J. Dyksen, 1971; Koning, F.J. & J. Rooth, 1975; Niethammer, G., 1972; Niethammer, J., 1970a; Nogge, G., 1969; Nogge, G., 1972; Nogge, G., 1974; Scott, D.A., 1975; Scott, D.A., 1975; Scott, D.A., 1975.

## 4. Migration and Bird-ringing

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#### Lower Animals

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8. Ellobius fuscicapillus (Blyth) southern mole-vole  
Dry stony deserts of central and northern Afghanistan between 500 and 2 600 m. Reported from Herat Province (Scully, 1887), Ghazni, Qargah, Herat, Kala Safid (C) (JN), Murghab (Scully, 1887), Paghman, Ghazni, Herat (JH).
9. Ellobius talpinus (Pallas) northern mole-vole  
E. t. talpinus. Northern loess plains below 1 300 m. Common in Mazar-i-Sharif, Maimanah (JH), Balkh, Lala Guzar (Taloqan), and Iman Sahib (Kunduz) (JN).
10. Gerbillus cheesmani Thomas Cheesman's gerbil  
G. c. aquilus Schlitter and Setzer. In sandy habitats of southern Afghanistan, below 1 000 m elevation. Abundant in Spin Baldak (SW) sand dunes, Kandahar, Girishk (S) (JH), Bakwa and Registan deserts (KH).
11. Gerbillus nanus Blanford Baluchistan gerbil  
Below 1 150 m elevation in southern sandy steppes and semi-deserts. Reported from Farah, Kang (Seistan) and Dilaram (JN), Kandahar and Qala-i-Kang (SW) (JH).
12. Tatera indica (Hardwicke) Indian gerbil  
Subtropical species of sandy steppes of the south and east. Reported from Herat, Kandahar, Girishk (S), Qala-i-Kang (SW), Jalalabad (JH), Somerkhel, Meterlam (E) (JG), Farah, Kala-Bust, Kandahar (JN).
13. Meriones crassus Sundevall Sundevall's jird  
Southern desert below 1 000 m. Gatai, Kandahar (JN), Kandahar, Girishk (S) Qala Bust and Kang (S) (JH), Bakwa, Registan and Margo deserts (KH).
14. Meriones hurrianae (Jerdon) Indian desert gerbil  
Southern Afghanistan (Corbett). Questionable reports, but probably between Ghazni and Kandahar (JH).
15. Meriones libycus Lichtenstein Libyan gerbil  
Common below 2 300 m elevation throughout all the steppes and deserts, including the Jalalabad Valley (JH).
16. Meriones meridianus (Pallas) midday gerbil  
Northern loess steppes of Afghanistan. Recorded from Kunduz (JH, JG) and below 700 m in the wetlands of Amu Darya river.
17. Meriones persicus (Blanford) Persian jird  
Mountains and foothills between 700 and 2 500 m elevation of dry central, southern and western Afghanistan. Recorded from Kabul Valley: Dare Nu, Meterlam, Darunta and Somerkhel (JG), Northern Salang, Qargah, 25 km SW of Kabul, Herat, 70 km N of Dilaram (JN), Kabul-Paghman, Shibar Pass (C), Herat, Ghazni, Kandahar (JH).
18. Meriones zarudnyi Heptner Zarudny's jird  
Northern loess steppes of Afghanistan. One record from Maimanah (JH).
19. Rhombomys opimus (Lichtenstein) great jird  
Numerous in clay and loess biotopes of northern and northwestern Afghanistan. Reported from Kunduz, Mazar-i-Sharif, Herat, Bala Murghab (NW), Sabzak Pass (NW) (JH), Balkh (MO), 60 km NW of Pul-i-Kumri, 50 km E of Bala Murghab (JN).



## Family Muridae

1. Apodemus sylvaticus (Linnaeus) field mouse  
A. s. sylvaticus: Widespread in the Hindu Kush, Nuristan and Wakhan mountains on places with dense or high shade vegetation and watercourses between 2 000 and 3 000 m elevation.
2. Rattus rattoides (Hodgson) Turkestan rat  
R. r. turkestanicus (Satunin)  
 In central, northern and northeastern Afghanistan, semicomensal. Seasonal migration from fields in summer to villages and towns in winter. In Jalalabad valley only in the rocky areas (JN & Martens).
3. Rattus rattus (Linnaeus) house rat  
R. r. povolnyi Niethammer and Martens. In or near buildings in Jalalabad Valley and Nuristan, up to 1 200 m elevation (JN & Martens).
4. Mus musculus Linnaeus house mouse  
 Commensal to man, up to 3 000 m elevation throughout Afghanistan.
5. Nesokia indica (Gray) bandicoot rat  
N. i. indica, Synanthrope, along watercourses below 2 000 m elevation throughout Afghanistan. Also Jalalabad Valley (JH).

## Family Gliridae

1. Dryomys nitedula (Pallas) forest dormouse  
D. n. angelus (Thomas). Along watercourses of central and northern Afghanistan between 1 000 and 2 800 m. The animals are harmful for the irrigation works. Recorded from Paghman, Salang, Herat (Chaworth-Musters, 1939, JH), Qargah (JN), Bagrabad (S) (KP).

## Family Dipotidae

1. Jaculus blanfordi (Murray) greater three-toed jerboa  
 Steppe and desert regions of southern Afghanistan below 1 000 m elevation. Recorded from Kandahar, Girishk (S), Kang (S) (JH), Kandahar (JN).
2. Allactaga elater (Lichtenstein) small five-toed jerboa  
A. e. indica Gray. Steppe and desert regions between 400 and 2 500 m throughout Afghanistan. Recorded from Herat, Logar river, Ghazni, Kandahar, Girishk (S), Dilaram (S) (JN), 25 km NW of Kunduz (N) (JG), Kunduz, Mazar-i-Sharif, Herat, Ghazni, Kandahar (JH).
3. Allactaga euphratica Thomas Euphrates jerboa  
 (Synonym A. williamsi Thomas)  
A. e. caprimulga Ellermann. Dry montane regions of the Hindu Kush Mountains between 1 800 and 3 200 m elevation. Recorded from Bamian, Bande Amir, Dashte Nawar, Qargah, Logar, Paghman, Kabul (JN), Paghman (JH), Shibar Pass (C) (Ellerman, 1948) (JH).
4. Allactaga hotsoni Thomas Hotson's jerboa  
 Bakwa and Artom deserts of southern Afghanistan. Recorded from Dilaram (S), Kang (S) (JH), Girishk (JN) (JH). Corbett however put these records under A. euphratica.

Salpingotus michaelis Fitzgibbon

dwarf jerboa

Not yet recorded for Afghanistan, but from Nushki (Pakistan), 30 km SW of border. This species is perhaps synonymous with S. thomasi Vinogradov, type specimen from Afghanistan-Baluchistan border (JH).

## Family Hystricidae

1. Hystrix indica Kerr

Indian crested porcupine.

Throughout Afghanistan below 2 600 m, along the rivers. Recorded from Kandahar, Mukur (E), Kabul, Lataband (E) (JN), Gusalek (E), Obeh (W) (KP), Jalalabad and Darre Nure Valleys (JG), Shahjoy (SE) (KH), Paghman, Shibar Pass (C), Faizabad (NE), Kandahar (JH).

## ORDER CARNIVORA

## Family Canidae

1. Canis aureus Linnaeus

jackal

Widespread in the arid lowlands and mountainous steppes up to an elevation of 3 500 m. Recorded from all over Afghanistan, frequently near urbanizations. Pursued in great numbers for its skin.

2. Canis lupus Linnaeus

wolf

C. l. lupus. Widely distributed in all types of terrain, especially mountains. Common in the Pamirs (JN), widespread in Central Highlands, Nuristan forests, Ghazni (KH) between 1 000 and 4 600 m elevation. Pursued in great numbers for its skin. Main centra are in Mazar-i-Sharif, Maimanah and Khanabad (Ro).

3. Vulpes cana Blanford

Afghan fox

Confined to the mountainous steppes. A very rare species. One record from Kandahar (Blanford, 1881). Rodenburg reports 4 furs in Kabul Bazar.

4. Vulpes corsac (Linnaeus)

corsac fox

Dry steppes and deserts of northern Afghanistan, below 1 000 m elevation. Common and much sought after for its skin. Main centra Mazar-i-Sharif and Maimanah (Ro).

5. Vulpes rueppelli (Schinz)

sand fox

Extremely rare desert species. Probably one Afghan record from Dashte Barang, near Afghanistan-Baluchistan border (JA).

6. Vulpes vulpes (Linnaeus)

red fox

V. v. vulpes. Widely distributed throughout the country, from southern deserts to Pamir tundras, up to 4 500 m elevation. Most important Afghan fur animal (Ro).

Cuon alpinus (Pallas)

red dog, dhole

Not yet recorded for Afghanistan but occur in neighbouring Pamir (Novikov) and probably Pakistan.

## Family Ursidae

1. Selenarctos thibetanus (Cuvier) Asiatic black bear  
Rare in the monsoonal forests of east Afghanistan above 1 500 m elevation. Recorded from Darunta (W of Jalalabad) (Povolny), common in the Pech-Parun Valley (E) (KP).
2. Ursus arctos Linnaeus brown bear  
U. a. isabellinus Horsfield. Alpine valleys of the Pamir and Nuristan between 2 500 and 5 000 m altitude. Strong hunting pressure (RP). In Big Pamir common (CN & JN).

## Family Mustellidae

1. Mustela erminea Linnaeus ermine, stoat  
M. e. erminea. Only reported from the alpine zones of Badakhshan, Zebak, Tolibai Valley (KH) and Small Pamir (CN & JN).
2. Mustela nivalis Linnaeus weasel  
M. n. nivalis. Paghman Mountains between 1 500 and 3 500 m elevation and probably also in Pamir and Hindu Kush (JN). Recorded from Paghman, Shibar Pass (JN), 72 km NW of Kabul (JH), Weran Valley (KP).
3. Vormela peregusna (Güldenstädt) marbled polecat  
V. p. peregusna. Steppes throughout the country; uncommon. Recorded from Kandahar (Hutton), (KH), (JN), Dashte Laili (Shiberghan-Tashkurghan, N) (CN), Alinghar river (Laghman) (JG), Ab-i-Estada, Kabul (RP).
4. Martes flavigula (Boddaert) yellow-throated marten  
M. f. flavigula. Forest dwelling species of monsoonal Afghanistan. Reported from Pech-Parun Valley (Nuristan) (KP), Kabul furshops (Ro).
5. Martes foina (Erxleben) stone marten  
M. f. foina. Montane steppes. Recorded from Qala-i-Pandja (Wakhan) (JN), Shibar Pass (C), Badakhshan (JH), Barak (Badakhshan) (CN), Ajar Valley (KH), Waygal (E) skin (RP), Kabul furshops with large numbers from Mazar-i-Sharif, Kunduz and Khanabad (Ro).
6. Mellivora capensis (Schreber) honey badger  
M. c. indica (Kerr). Drier parts of Afghanistan. Very rare. Novikov gives Hari Rud, Murghab and Amu Darya river valleys in Turkestan. Roberts, 1977 gives southern plains.
7. Meles meles (Linnaeus) badger  
Steppes of northern Afghanistan; extremely rare. Kabul fur bazar, one skin from Badakhshan (JN) and one from Nuristan (Rodenburg). A zoo animal was probably taken in Behsud (C) (CN).
8. Lutra lutra (Linnaeus) otter  
Widespread along rivers and watercourses throughout the country. Heavily hunted for their skins. Recorded from Hari Rud (near Herat), Kantiway river (near Chaman, E), Bajagul Valley (Laghman) (RP), Lindai Sin, Gusalek (E) (CN) (KP), Anjuman Pass (Pansjir), Juwain (Farah) (JH).

## Family Viverridae

1. Paguma larvata (Hamilton-Smith)                      masked palm-civet  
Reported from Nuristan (JN in Roberts).
2. Herpestes auropunctatus (Hodgson)                      small Indian mongoose  
H. a. pallipes Blyth. Semi-deserts of Kandahar, Seistan and Eastern Afghanistan. Reported from Laghman and Jalalabad (JG), Herat, Kandahar, Girishk (C) (JH), Kandahar, Seistan, Jalalabad (KN), Kandahar 1953 (KZ).
3. Herpestes edwardsi Geoffrey                      Indian grey mongoose  
H. e. ferrugineus Blanford. Recorded from Afghanistan (Kullman) but not yet collected.

## Family Hyaenidae

1. Hyaena hyaena Linnaeus                      striped hyaena  
H. h. hyaena. Widely distributed in semi-deserts and steppes below 1 500 m, mainly in the southern part but probably sporadically north (JH). Also reported from lower Kabul River Valley (JG).

## Family Felidae

1. Felis bengalensis Kerr                      leopard cat  
F. b. trevelyani Pocock. Forested mountains of eastern Afghanistan. Kunar and Pech Valleys (E) (KP), Dare Nur (E) (CN).
2. Felis caracal Schreber                      caracal  
F. c. schmitzi Matschie. Very rare animal of the steppes of Turkestan. Recorded from Sare Pul (Jozjan Province) and Herat (pelt) (No).
3. Felis chaus GÜldenstädt                      jungle cat  
Common in riverine reed beds and swamps but also in steppes. Recorded from Maimanah (Scully, 1887), Hari Rud near Herat, Girishk, Helmand river, Kandahar (JH), Nangarhar (E) (JN), Meterlam (Laghman) (CN). Abundant on the Mazar-i-Sharif, Kunduz, Herat and Kabul fur markets (Ro). (Ro).
4. Felis lynx Linnaeus                      lynx  
F. l. isabellina Blyth. Alpine slopes above treeline and upland valleys, up to 4 500 m elevation in the Hindu Kush, Nuristan, Wakhan and the Pamirs. Recorded from Wakhan, Big and Small Pamirs (RP), Boroghil Valley (Sarghad, Pamir), Chorbani Valley (C), Shibar Pass (C) (CN), Upper Nuristan (KH).
5. Felis manul Pallas                      Pallas's cat  
Montane steppes between 1 500 and 3 500 m elevation. Recorded from Wakhan Corridor and Zebak Valley, Salang Pass and Panjshir Valley (JN).
6. Felis silvestris Schreber                      wild cat  
(conspecific with F. lybica Forster). F. s. ornata Gray. Desert cat of the southern and eastern desert areas of Afghanistan.  
F. s. caudata Gray. Turkestan (Corbet). Recorded from Central Mountains, Shibar Pass (C), Herat (KH), Bamian (JG), Waygal Valley (E) (Kabul Zoo info.). Much sought after for its pelt and common in the Mazar-i-Sharif, Maimanah, Andkhui and Herat fur bazars (Ro).

## Appendix 1

### CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES OF WILD FAUNA AND FLORA (CITES)

The Convention states that for species threatened with extinction, and so included in Schedule I, an export permit from the country of origin and an import permit from the country of importation are required. These permits are issued by national management authorities, provided that removal from its country of origin will not be detrimental to the survival of the species and that the motive is not primarily commercial.

For Afghanistan the following are included in Schedule I of the Convention:

#### Mammals:

Selenarctos thibetanus  
Ursus arctos isabellinus  
Lutra lutra  
Acinonyx jubatus  
Felis bengalensis bengalensis  
Felis caracal  
Felis marmorata  
Panthera pardus  
Panthera tigris  
Panthera uncia  
Moschus moschiferus  
Capra falconeri jerdoni  
Capra falconeri megaceros  
Ovis orientalis vignei

#### Birds:

Aquila heliaca  
Haliastur albicilla  
Falco peregrinoides babylonicus  
Lophophanes impejanus  
Grus leucogeranus

#### Reptiles:

Varanus bengalensis  
Varanus griseus

Species not yet threatened with extinction but which could become endangered if trade is not controlled are included in Schedule II of the Convention. An export permit from the country of origin is required but not an import permit. For Afghanistan the following species are included in Schedule II:

7. Panthera pardus (Linnaeus) leopard  
P. p. pardus. Restricted but still occurring in the eastern and central mountain ranges. Reported from Khost Fereng (C) and Salang Mountains (C), Lataband Pass (E) (KH), Wakhan and Darqad (NE) (RP).
8. Panthera tigris (Linnaeus) tiger  
P. t. virgata Illiger. Turanian tiger, probably extinct for Afghanistan. Last reliable report from 1967 Darqad river (Takhar Province) (RP). Formerly common along the Amu Darya and Murghab rivers but during the last 50 years only recorded from the Imam Sahib and Darqad river islands (KH).
9. Panthera uncia (Schreber) snow leopard  
Arid alpine regions above treeline. Reported from Wakhan, Pamirs and Nuristan (JN) (RP). Heavily hunted for its skin (Ro). Unsubstantiated report from Ajar Valley (KH).
10. Acinonyx jubatus (Schreber) cheetah  
Formerly widely scattered throughout the lower steppes up to 1 000 m elevation but now believed to be extinct (KH). Roberts, 1977 reported skins in Pakistan probably originally from Afghan Turkestan, Paludan bought a skin from Farah (1948) and Nogge from Herat (1971).

## ORDER PERISSODACTYLA

## Family Equidae

1. Equus hemionus Pallas onager, wild ass  
E. h. onager Boddaert. Southern Afghanistan and E. h. kulan Groves and Mazak. North-western Afghanistan. Formerly abundant on the steppes of southern and western Afghanistan but unlimited hunting eliminated most of them. Recently only recorded from the steppeland in the Herat-Badghis Provinces near the Soviet border (RP).

## ORDER ARTIODACTYLA

## Family Suidae

1. Sus scrofa Linnaeus wild boar  
S. s. cristata Wagner. Common in the marshes, swamps and riverbanks throughout the country, up to 2 000 m elevation.

## Family Camelidae

Camelus ferus Przewalski Bactrian camel

As a wild animal now confined to the western Gobi Desert but formerly throughout the dry steppes of Turkestan (Corbett) probably also in northern Afghanistan.

## Family Moschidae

1. Moschus moschiferus Linnaeus musk deer  
Reported from the Parun Valley (E) (KP), Nisheigram and Maktosho (KH) and Kamu (E) (CN), all in the forested parts of Nuristan, up to 3 000 m elevation. It is not yet collected from Afghanistan.

## Family Cervidae

1. Cervus elaphus Linnaeus

red deer

C. e. bactrianus Lydekker. Riverine woodland of northern Afghanistan. Endangered, at present restricted to the Amu Darya River wetlands of Darqad (Takhar) and Iman Sahib (Kunduz) (RP). Introduced in the Ajar Valley.

## Family Bovidae

Bos mutus (Przewalski)

wild yak

Formerly as a wild species the yak probably occurred in the Pamirs.

Gazella dorcas (Linnaeus)

common gazelle, Indian gazelle

C. d. bennetti (Sykes). Pakistan. G. d. fuscifrons Blanford, Iranian Seistan. Not yet recorded for Afghanistan but possibly occurring in southern or south-western Afghanistan.

1. Gazella subgutturosa (Güldenstädt)

goitered gazelle

G. s. subgutturosa. Formerly widely distributed in the steppes and semi-deserts below 2 000 m but hunting eliminated most of the population. Recently recorded from Girishk, Kalat (NW) (JH), Registan and Margo deserts (CN), Khulm plain and Hairatan Desert (NW) (RP), Hamadan Desert (W) (Herat Livestock Company), Girishk, 25 km W Dilaram, 50 km NW Kandahar, N Farah (W), Tirlpul-Islam Qala (W) (KP).

Nemorhaedes goral (Hardwicke)

goral

Not yet established in Afghanistan but hearsay reports from Nangarhar and Kunar fit with the goral. It occurs in contiguous parts of Pakistan.

2. Capra aegagrus Erxleben

wild goat

C. a. blythi Hume. Widely distributed in mountainous southwest and south Afghanistan (JH), Uruzgan Mountains and headwaters of the Helmand river, north of Gulran in the Farah and Sharak in the Ghor Provinces, up to 3 500 m elevation (KH), S of Farah, Kabul (KP).

3. Capra falconeri (Wagner)

markhor

C. f. cashmiriensis Lydekker. Headwaters of Alingar and Alishang rivers in Kunar and Laghman Provinces, still viable populations (RP), Kamdesh (JH). C. f. heptneri Zalkin. Darwaz Peninsula of Takhar Province (Roberts), C. f. jerdoni Hume. Springhar forests of Paktia, endangered; C. f. megaceros Hutton. From Kohe Safi to Lataband and Tange Gharu Passes in the Kabul Province (PP), endangered (IUCN Red Data Book). The markhor occur in alpine and subalpine habitat and conifer forests between 1 000 and 4 000 m elevation (KH).

4. Capra ibex Linnaeus

ibex

C. i. siberica (Pallas). Widespread in all Afghan mountains between 2 000 and 5 000 m elevation.

Pseudois nayaur Hodgson

blue sheep

Not yet reported from Afghanistan but from neighbouring Pakistan where it occurs in the Hunza district, bordering the Pamir, in the same general area as that from which the Marco Polo sheep migrate in the summer.

5. Ovis ammon Linnaeus

Marco Polo sheep

O. a. poloi Blyth. Alpine valleys of the Pamir between 3 000 and 5 000 m elevation. The overall population number is thought to be 2 500 for the Big and Small Pamir and an unknown additional number in the Waghjir Valley of the Small Pamir (RP).

6. Ovis orientalis Gmelin

urial

O. o. vignei Blyth. Widespread in the Hindu Kush Mountains between Herat, Hazarajat, Wakhan (NE), Lataband (E) and Kandahar, between 500 and 4 500 m elevation. Four different forms are recognized (KH).



Appendix 5

## CHECKLIST OF THE BIRDS OF AFGHANISTAN

For the taxonomical background and sequence of the species listed in Appendixes 5 and 6 the publication of Voous, K.M., 1973, 1977, 'List of recent Holarctic bird species' is followed. Subspecific taxonomy is mainly based on Vaurie, C., 1959, 1965 'The birds of the Palaearctic Region' and on Hué, F. and Etchecopar, R.D., 1970 'Les Oiseaux du Proche et du Moyen Orient'. For abbreviations of collectors and for name locations see Appendixes 2 and 3.

Much of the information is from collections made by K. Paludan but also from collections made by R. Meimertshagen, by W. Koelz and by R. Maconachie, referred to in H. Whistler, 1944-45. This publication also gives much information on the older collections. Recent collections were made by J. Niethammer et al., but most of the recent information is based on observation and not on collections and so the chance of error is much greater than in the older information. More important recent publications are those of F. Reeb, J. Vieillard, V. Vasic, E. Smith and especially J. Niethammer et al.

In Appendix 5 a split in information before and after 1930 is made because the older information is mainly from the turn of the century or before, and several of the major collections were made after 1930. Hardly any observations are made during the winter months in the mountains and so for many factual resident birds no winter data are available. In the last century more emphasis was given to the collection of gamebirds, such as partridge, sandgrouse, woodcock and snipe. Recent information on these birds is often scarce, but many populations have been decimated, especially pheasants and bustards.

## KEY

- |                                  |   |
|----------------------------------|---|
| 1 one record only                | r resident                                    |
| 2 2-4 records, uncommon          | w winter visitor                              |
| 3 several records, rather common | s summer visitor, breeding not recorded       |
| 4 many records, common           | b summer visitor, breeding recorded           |
| 5 breeding                       | m passage migrant                             |
| 6 not recorded since 1930        | E eastern Afghanistan                         |
|                                  | N northern Afghanistan                        |
|                                  | W western Afghanistan                         |
|                                  | S southern Afghanistan                        |
|                                  | wE winter visitor to eastern Afghanistan etc. |
|                                  | C Central Afghanistan, Hindu Kush             |



	J.	F.	M.	A.	M.	J.	J.	A.	S.	O.	N.	D.	
<i>Haliaeetus leucoryphus</i>	6	.	.	.	.	.	.	.	.	.	1	.	mSW
<i>Haliaeetus albicilla</i>	.	.	1	.	.	.	.	.	.	.	.	.	mSW
<i>Gypaetus barbatus</i>	.	1	3	3	3	3	3	3	3	2	1	.	r
<i>Neophron percnopterus</i>	.	.	3	3	3	5	3	3	3	.	1	.	b,m
<i>Gyps bengalensis</i>	.	.	.	.	.	.	.	1	.	.	.	.	C
<i>Gyps indicus</i>	.	.	1	.	.	.	.	.	.	.	.	.	C
<i>Gyps fulvus</i>	3	3	3	3	3	3	3	3	3	3	3	3	r,w
<i>Gyps himalayensis</i>	.	.	.	2	1	1	1	.	.	.	.	.	s
<i>Aegypius monachus</i>	1	1	3	3	3	.	.	1	3	3	1	.	m
<i>Circus gallicus</i>	3	3	3	3	3	2	2	6	.	.	3	3	m
<i>Circus aeruginosus</i>	3	3	5	5	5	5	2	5	3	2	3	3	bN,m,w
<i>Circus cyaneus</i>	6	6	1	1	.	.	.	.	.	.	6	6	m,w
<i>Circus macrourus</i>	3	3	3	3	.	.	.	1	2	.	3	3	m,w
<i>Circus pygargus</i>	.	.	1	3	2	.	.	2	.	.	.	.	m
<i>Accipiter gentilis</i>	.	.	.	.	.	.	.	.	.	.	.	.	capt.
<i>Accipiter nisus</i>	1	3	3	3	5	.	.	1	3	2	.	1	bE,m,w
<i>Accipiter badius</i>	.	6	.	3	1	.	2	.	.	.	.	.	bNW,m
<i>Butaster teesa</i>	.	.	.	.	.	.	.	2	.	.	.	.	E
<i>Buteo buteo</i>	.	2	1	2	2	.	.	.	1	3	.	.	m
<i>Buteo rufinus</i>	3	3	3	3	2	3	5	2	2	3	3	3	bE,m,w
<i>Aquila clanga</i>	.	2	1	3	2	1	.	1	.	1	1	3	m
<i>Aquila rapax</i>	.	.	1	.	2	2	2	2	.	1	.	.	mE,C,S
<i>Aquila heliaca</i>	3	3	1	.	1	1	1	.	.	.	3	3	m,w
<i>Aquila chryaetos</i>	3	3	3	2	2	2	2	3	2	2	3	3	s,m,w
<i>Hieraaetus pennatus</i>	1	1	2	3	.	.	2	2	1	1	1	1	m,w
<i>Hieraaetus fasciatus</i>	.	.	.	.	.	.	.	2	.	.	.	6	m
<i>Pandion haliaetus</i>	2	2	3	3	.	1	.	.	2	2	2	2	m
<i>Falco naumanni</i>	.	.	3	5	3	2	.	3	2	.	.	.	bNW,m
<i>Falco tinnunculus</i>	3	3	3	3	4	3	5	5	3	3	3	3	b,m
<i>Falco vespertinus</i>	.	.	1	2	.	.	.	.	.	.	.	.	m
<i>Falco columbarius</i>	2	1	2	2	1	.	.	.	.	1	.	2	m
<i>Falco subbuteo</i>	.	.	1	2	5	3	3	3	3	3	.	.	bN,m
<i>Falco jugger</i>	.	1	1	2	.	2	1	2	.	.	.	.	bSE
<i>Falco cherrug</i>	2	2	2	2	2	1	2	2	2	2	2	2	s,m,w
<i>Falco pelegrinoides</i>	1	1	.	1	2	1	2	2	.	.	.	.	r
<i>Tetraogallus himalayensis</i>	.	.	.	5	2	2	3	2	2	2	.	.	rE,C
<i>Alectoris chukar</i>	.	2	2	5	5	5	2	3	2	.	6	6	r
<i>Ammodramus griseogularis</i>	6	1	6	2	5	2	5	1	1	.	.	.	r
<i>Francolinus francolinus</i>	.	.	1	1	.	.	.	6	.	6	.	.	rS
<i>Francolinus pondicerianus</i>	.	.	.	.	.	.	1	.	.	.	.	.	rS
<i>Coturnix coturnix</i>	.	.	2	3	3	2	5	3	2	2	2	.	b,m
<i>Pucrasia macrolopha</i>	.	.	1	1	.	.	.	.	.	.	.	.	E
<i>Lophophorus impejanus</i>	.	.	1	.	.	.	.	1	1	.	.	.	rE
<i>Phasianus colchicus</i>	.	6	6	6	5	.	.	.	.	1	.	6	rNW,N
<i>Rallus aquaticus</i>	2	.	.	1	.	.	.	.	.	1	.	6	w
<i>Porzana porzana</i>	.	.	6	6	1	.	.	.	.	.	.	.	m
<i>Porzana parva</i>	.	6	.	.	.	.	.	.	6	.	.	.	m
<i>Porzana pusilla</i>	.	6	.	2	2	1	.	.	2	1	.	.	bE,m
<i>Crex crex</i>	.	.	.	.	6	.	.	.	.	.	.	.	NW
<i>Gallinula chloropus</i>	.	.	.	3	3	5	2	2	2	1	.	.	bE,SW,m
<i>Porphyrio porphyrio</i>	.	.	1	.	.	.	.	.	1	.	.	.	rSW,m
<i>Fulica atra</i>	4	4	4	4	5	5	4	4	4	4	4	4	r,m,w
<i>Grus grus</i>	.	.	4	3	.	.	.	2	2	.	.	.	m
<i>Grus leucogeranus</i>	.	.	3	.	.	.	.	.	.	.	.	.	m
<i>Anthropoides virgo</i>	.	.	2	2	2	.	.	.	.	.	1	.	m
<i>Tetrax tetrax</i>	.	.	6	.	.	.	.	.	.	.	6	6	m,wS,N
<i>Chlamydotus undulata</i>	.	1	2	6	.	.	.	.	.	.	6	.	m,w
<i>Otis tarda</i>	1	1	1	1	.	.	.	.	.	.	.	.	mN

## J. F. M. A. M. J. J. A. S. O. N. D.

<i>Hydrophasianus chirurgus</i>	.	.	.	.	.	2	2	2	.	.	.	.	bE
<i>Rostratula benghalensis</i>	.	.	.	6	.	.	.	.	.	.	.	.	E, S
<i>Haematopus ostralegus</i>	.	.	1	3	1	.	1	2	.	.	.	.	m
<i>Himantopus himantopus</i>	.	.	4	4	4	4	4	4	4	2	.	.	bE, m
<i>Recurvirostra avosetta</i>	.	.	3	3	4	2	.	5	2	2	6	.	bE, m
<i>Burhinus oedicnemus</i>	.	.	6	2	2	.	2	.	1	1	.	.	r
<i>Cursorius cursor</i>	.	1	3	2	2	5	2	.	1	.	.	.	b, m
<i>Glareola pratincola</i>	.	.	.	1	1	2	.	.	.	.	.	.	m
<i>Glareola glareola</i>	.	.	.	1	1	.	.	.	.	.	.	.	m
<i>Glareola lactea</i>	.	.	6	2	.	5	1	.	.	.	.	.	bE
<i>Charadrius dubius</i>	.	1	3	4	3	3	3	1	3	3	.	.	bE, m, w
<i>Charadrius hiaticula</i>	2	.	.	2	2	.	1	1	2	1	1	1	m
<i>Charadrius alexandrinus</i>	1	1	3	3	4	5	.	1	1	1	.	.	bE, m, w
<i>Charadrius mongolus</i>	.	.	6	.	2	.	5	1	.	.	.	.	bNE, m
<i>Charadrius leschenaultii</i>	.	6	.	2	2	5	.	1	.	.	.	.	BE, m
<i>Pluvialis dominica</i>	.	.	.	.	.	.	.	.	.	6	.	.	m
<i>Pluvialis squatarola</i>	.	.	1	1	.	.	.	.	.	.	.	.	E
<i>Hoplopterus indicus</i>	.	6	1	2	5	.	5	.	.	.	.	.	bS, m
<i>Chettusia gregaria</i>	.	.	.	1	.	.	.	.	.	1	.	.	E
<i>Chettusia leucura</i>	.	1	3	3	.	6	.	2	2	.	.	6	m, w
<i>Vanellus vanellus</i>	3	3	2	1	.	.	.	.	.	3	3	3	m, w
<i>Calidris alba</i>	.	.	.	1	2	.	.	.	.	.	.	.	m
<i>Calidris minuta</i>	1	3	4	4	4	2	2	4	4	3	.	.	m
<i>Calidris temminckii</i>	.	.	1	.	2	.	.	1	2	.	.	.	m
<i>Calidris ferruginea</i>	.	.	.	.	3	2	.	3	3	2	.	.	m
<i>Calidris alpina</i>	2	.	2	3	3	.	.	1	1	1	2	6	m, w
<i>Philomachus pugnax</i>	.	.	3	4	4	.	2	2	3	2	2	.	m
<i>Limnocryptes minimus</i>	2	6	6	1	.	.	.	.	.	1	2	1	m, w
<i>Gallinago gallinago</i>	3	3	3	3	2	.	.	2	3	3	3	3	bNE, m, w
<i>Gallinago media</i>	.	.	.	.	.	.	.	.	?	.	.	.	?NE
<i>Gallinago solitaria</i>	1	.	.	1	.	.	.	.	2	2	.	1	w
<i>Scolopax rusticola</i>	1	6	6	.	.	.	.	.	.	1	6	1	m
<i>Limosa limosa</i>	.	6	2	2	2	.	1	.	.	.	.	6	m, w
<i>Limosa lapponica</i>	.	.	.	.	1	.	.	.	2	.	.	.	m
<i>Numenius phaeopus</i>	.	.	.	1	1	.	.	.	.	.	.	.	mE
<i>Numenius tenuirostris</i>	.	.	.	.	?	.	.	.	.	.	.	.	?E
<i>Numenius arquata</i>	.	.	1	3	3	.	.	1	1	.	.	.	m, w
<i>Numenius madagascariensis</i>	.	.	.	.	1	.	.	.	.	.	.	.	E
<i>Tringa erythropus</i>	.	.	1	2	3	1	1	.	2	1	.	1	m
<i>Tringa totanus</i>	1	2	2	3	3	2	5	3	2	.	1	1	bNE, m, w
<i>Tringa stagnatilis</i>	.	.	1	3	3	.	3	2	2	.	.	.	m
<i>Tringa nebularia</i>	1	1	2	3	3	2	2	2	2	.	.	.	m, w
<i>Tringa ochropus</i>	3	3	3	4	3	2	3	3	3	3	3	2	m, w
<i>Tringa glareola</i>	.	.	2	3	3	3	5	5	3	2	.	1	m
<i>Xenus cinereus</i>	.	.	.	.	2	1	2	2	2	.	.	.	m
<i>Actitis hypoleucos</i>	1	.	3	5	3	3	3	3	3	3	2	1	bN, C, E, m
<i>Arenaria interpres</i>	.	.	.	1	3	.	.	2	2	.	.	.	m
<i>Phalaropus lobatus</i>	.	.	.	2	2	2	.	2	2	2	.	.	m
<i>Larus ichtyaetus</i>	.	1	2	2	.	.	.	1	1	.	.	.	m
<i>Larus ridibundus</i>	.	6	4	4	4	3	2	2	2	2	1	2	m, w
<i>Larus genei</i>	.	1	.	3	5	5	.	2	2	.	.	.	bE, m
<i>Larus canus</i>	.	.	1	.	.	.	.	.	.	.	.	.	mE
<i>Larus fuscus</i>	.	.	2	.	1	.	.	.	.	.	.	.	mE
<i>Larus argentatus</i>	1	1	2	2	2	.	.	.	.	.	.	.	m
<i>Gelochelidon nilotica</i>	.	.	2	3	5	3	3	2	1	.	.	.	bE, s, m
<i>Sterna caspia</i>	.	.	1	3	.	1	1	.	.	.	.	.	m
<i>Sterna aurantii</i>	.	.	.	.	.	.	.	1	.	.	.	.	mE
<i>Sterna hirundo</i>	.	.	2	2	3	3	5	2	.	.	.	.	bNW, E, s
<i>Sterna albifrons</i>	.	.	.	2	3	3	2	2	.	.	.	.	s

	J.	F.	M.	A.	M.	J.	J.	A.	S.	O.	N.	D.	
Chlidonias hybrida	.	.	.	2	4	3	2	2	.	.	.	.	m
Chlidonias nigra	.	.	.	.	?	?	.	.	.	.	.	.	?E
Chlidonias leucoptera	.	.	.	.	2	1	.	.	.	.	.	.	mE
Pterocles coronatus	.	.	.	.	2	1	1	.	.	.	.	.	S
Pterocles senegallus	.	.	1	.	.	.	.	.	1	.	.	6	S
Pterocles orientalis	1	2	2	2	5	5	2	2	1	6	.	.	bE,m,w
Pterocles alchata	.	.	.	.	.	1	2	.	.	6	.	6	rNW,S
Columba livia	3	4	4	4	5	5	5	3	.	.	.	.	rE
Columba rupestris	.	.	2	.	.	2	2	2	.	.	.	.	bNE
Columba leuconota	.	.	.	.	2	2	2	.	1	.	.	.	rE
Columba oenas	.	.	.	.	?	.	.	.	.	.	6	.	wN
Columba eversmanni	.	.	1	6	5	2	5	.	.	.	.	.	rN,NE,m
Columba palumbus	.	.	6	2	2	.	5	5	.	1	.	.	bW,C,E
Streptopelia decaocta	.	.	3	3	5	5	3	3	3	3	.	.	b
Streptopelia tranquebarica	.	.	.	.	5	.	.	.	.	.	.	.	E
Streptopelia turtur	.	.	.	.	5	3	5	3	2	.	.	.	bNW,N,m
Streptopelia orientalis	.	.	.	.	5	5	2	2	2	2	.	.	bE,C,m
Streptopelia senegalensis	3	3	3	3	5	5	5	5	5	3	3	3	r,b
Streptopelia chinensis	.	.	.	.	1	.	.	.	.	.	.	.	E
Psittacula krameri	2	2	2	2	2	2	2	2	2	2	2	2	E
Psittacula himalayana	.	.	.	2	1	.	1	.	.	.	.	.	sE
Psittacula eupatria	.	.	.	.	.	.	.	.	.	1	.	.	E
Cuculus canorus	.	.	.	1	5	5	2	2	1	.	.	.	b
Otus brucei	.	.	.	6	.	.	.	.	.	.	.	.	NE
Otus scops	.	.	.	6	.	.	.	.	.	.	.	.	S
Bubo bubo	.	6	.	.	2	.	1	3	.	.	.	.	r
Glaucidium brodiei	.	.	.	1	.	.	.	.	.	1	.	.	E
Athene noctua	3	3	5	5	5	3	5	3	3	3	3	3	r
Strix aluco	.	1	.	.	6	6	.	.	.	.	.	.	rE
Asio otus	2	2	2	.	.	.	.	.	.	.	1	2	w,m
Asio flammeus	.	1	2	6	1	.	.	.	.	2	.	1	w,m
Caprimulgus mahrattensis	.	.	.	6	6	6	6	6	6	.	.	.	s
Caprimulgus asiaticus	.	.	.	6	.	.	.	.	.	.	.	.	s
Caprimulgus europaeus	.	.	.	.	2	2	1	2	1	1	.	.	s
Caprimulgus aegypticus	.	.	1	1	.	.	.	.	.	.	.	.	sW,SW
Apus apus	.	6	3	4	5	4	4	4	4	2	.	.	s,m
Apus melba	.	2	3	3	5	3	3	3	3	2	.	.	s,m
Apus affinis	1	.	1	5	1	.	1	1	1	.	.	.	s,m,wE
Halcyon smyrnensis	1	2	.	2	.	.	.	.	1	.	1	1	rE
Alcedo atthis	1	2	2	3	3	3	2	3	3	2	1	1	rS,s
Ceryle rudis	1	3	1	1	1	.	.	1	1	.	2	.	sE
Ceryle lugubris	.	.	.	2	.	.	.	.	.	.	.	.	E
Merops orientalis	.	.	.	.	2	.	.	.	.	.	.	.	E
Merops superciliosus	.	.	.	2	5	3	3	3	3	6	.	.	s,m
Merops apiaster	.	.	.	4	3	5	3	4	2	.	.	.	s,m
Coracias garrulus	.	.	1	3	3	3	3	3	2	.	.	.	s,m
Coracias benghalensis	.	.	.	1	6	.	.	.	.	.	.	.	s
Upupa epops	2	2	3	4	5	3	3	3	3	2	2	2	s,m,r
Jynx torquilla	1	1	1	4	2	.	.	2	2	.	1	1	m,w
Picumnus innominatus	.	.	.	.	.	.	1	.	.	.	.	1	E
Picus squamatus	.	1	.	1	5	5	2	1	.	6	.	1	r
Dendrocopus himalayensis	.	.	2	3	5	5	.	.	.	.	.	.	sE
Dendrocopus auriceps	.	.	2	2	5	5	.	.	.	.	.	.	rE
Dendrocopus leucopterus	1	.	.	.	2	.	2	1	.	1	.	.	rN

## PASSERIFORMES

	J.	F.	M.	A.	M.	J.	J.	A.	S.	O.	N.	D.	
<i>Ammomanes cincturus</i>	2	2	2	.	.	.	.	.	.	.	.	6	sSW
<i>Ammomanes deserti</i>	6	2	2	3	5	3	3	3	3	1	1	1	r
<i>Alaemon alaudipes</i>	1	2	2	3	2	2	1	1	2	2	2	1	rS
<i>Melanocorypha calandra</i>	1	.	.	.	5	.	.	3	.	.	.	1	rN,m
<i>Melanocorypha bimaculata</i>	1	3	2	2	5	5	2	3	3	2	1	1	bN,m
<i>Calandrella cinerea</i>	2	.	4	2	4	1	.	3	3	3	2	2	s,m
<i>Calandrella acutirostris</i>	1	1	1	2	5	5	2	3	3	2	1	1	s
<i>Calandrella rufescens</i>	2	1	1	1	5	.	1	1	2	2	2	2	b,m,w
<i>Calandrella raytal</i>	.	.	.	.	.	.	.	.	1	.	.	.	E
<i>Galerida cristata</i>	3	4	4	5	5	5	3	3	3	3	3	3	r
<i>Lullula arborea</i>	1	.	.	.	.	.	.	.	.	.	.	.	SW
<i>Alauda gulgula</i>	1	1	1	5	5	3	5	3	2	1	2	.	r
<i>Alauda arvensis</i>	1	3	1	.	5	.	2	2	.	3	2	2	s,m
<i>Eremophila alpestris</i>	3	3	1	5	5	5	5	3	3	3	1	1	rNE
<i>Eremophila bilopha</i>	.	.	.	.	.	?	.	.	.	.	.	.	.
<i>Riparia palundicola</i>	.	.	.	.	5	2	.	2	2	.	.	.	rNE
<i>Riparia riparia</i>	4	2	1	4	3	2	2	2	2	2	2	2	s,m,wE
<i>Ptyonoprogne fuligula</i>	.	.	6	.	.	1	.	.	.	.	.	.	C,S
<i>Ptyonoprogne rupestris</i>	.	1	3	5	5	3	3	3	3	3	1	.	sN,E
<i>Hirundo rustica</i>	6	3	4	5	5	5	4	4	3	2	1	6	s,m
<i>Hirundo smithii</i>	.	.	.	3	5	3	3	3	3	2	1	.	s
<i>Hirundo fluviicola</i>	.	.	.	.	1	.	.	.	.	.	.	1	E
<i>Hirundo daurica</i>	.	.	3	5	3	5	3	3	3	1	.	.	sN,E
<i>Delichon urbica</i>	.	2	2	3	3	3	5	3	2	.	.	.	sN,E
<i>Anthus novaeseelandiae</i>	.	.	.	6	6	.	.	.	.	.	.	.	S
<i>Anthus sylvanus</i>	.	.	.	.	.	1	.	.	.	.	.	.	E
<i>Anthus campestris</i>	2	2	2	5	5	.	1	1	2	2	2	2	s,m,ws
<i>Anthus similis</i>	.	.	.	.	2	6	.	.	.	.	.	.	sE
<i>Anthus hodgsoni</i>	.	.	.	.	.	1	.	1	.	.	.	.	NE
<i>Anthus trivialis</i>	1	6	.	4	2	2	.	1	3	2	.	1	m,w
<i>Anthus pratensis</i>	.	.	.	.	.	.	.	.	.	.	.	.	m
<i>Anthus cervinus</i>	.	.	1	1	1	.	.	.	1	.	.	.	m
<i>Anthus roseatus</i>	.	.	6	.	.	.	.	.	.	.	.	.	E
<i>Anthus spinoletta</i>	1	2	2	1	1	.	.	.	.	1	1	2	m,w
<i>Motacilla flava</i>	.	.	2	3	3	.	2	3	3	2	.	.	s,m
<i>Motacilla citreola</i>	.	1	3	5	5	5	5	3	2	.	.	.	b,m
<i>Motacilla cinerea</i>	1	.	2	5	5	3	2	2	2	2	1	1	sC,m
<i>Motacilla alba</i>	3	3	3	3	5	5	2	3	3	3	3	3	s,m,w
<i>Pericrocotus ethologus</i>	.	1	.	1	2	.	.	.	.	.	.	.	sE
<i>Pycnonotus leucogenys</i>	1	2	1	3	5	2	2	1	2	2	1	2	rS,E
<i>Hypsipetes madagascariensis</i>	.	.	6	2	.	1	.	.	2	.	.	.	sE
<i>Bombycilla garrulus</i>	.	.	.	.	.	.	.	.	.	.	.	.	m
<i>Hypocolius ampelinus</i>	.	.	.	1	2	.	1	.	.	1	.	.	m
<i>Cinclus cinclus</i>	.	.	.	2	2	2	3	1	2	3	1	.	r
<i>Cinclus pallasii</i>	2	2	5	5	2	2	3	3	2	2	2	2	r
<i>Troglodytes troglodytes</i>	2	2	2	.	1	1	5	1	3	3	2	2	rN,E
<i>Prunella strophiatea</i>	.	.	.	.	.	2	.	.	.	.	.	.	bE
<i>Prunella fulvescens</i>	1	1	1	1	1	5	5	3	2	2	.	.	r,bN
<i>Prunella atrogularis</i>	3	3	3	.	1	.	.	.	1	2	3	3	w
<i>Prunella himalayana</i>	.	.	1	.	.	.	2	2	.	.	1	.	bNE,C
<i>Prunella collaris</i>	2	2	2	.	.	2	1	.	.	.	2	2	bE,m
<i>Cercotrichas galactotes</i>	.	.	.	2	3	.	2	.	2	.	.	.	s,m
<i>Erythacus rubecula</i>	.	.	1	.	.	.	.	.	.	.	.	.	SE
<i>Lucinia megarhynchos</i>	.	.	.	1	5	2	2	.	.	.	.	.	bN
<i>Lucinia svecica</i>	.	2	3	3	1	5	2	3	3	3	2	2	b,m
<i>Lucinia pectoralis</i>	.	.	.	.	.	1	.	.	.	.	.	.	E

	J.	F.	M.	A.	M.	J.	J.	A.	S.	O.	N.	D.	
<i>Lucinia brunnea</i>	.	.	.	2	2	2	.	1	.	.	.	.	sE
<i>Tarsiger cyanurus</i>	.	.	.	.	.	.	.	.	.	.	.	.	rE
<i>Tarsiger hyperythrus</i>	.	.	.	.	.	.	?	.	.	.	.	.	?C
<i>Irania gutturalis</i>	.	.	.	1	2	.	1	.	.	.	.	.	sN,C
<i>Phoenicurus erythronotus</i>	2	3	3	2	.	.	.	.	1	2	2	3	m,w
<i>Phoenicurus caeruleocephalus</i>	.	2	2	2	5	5	5	1	.	2	2	3	b,m
<i>Phoenicurus ochrurus</i>	6	2	3	5	5	5	3	3	3	3	3	6	b,m,w
<i>Phoenicurus phoenicurus</i>	.	.	.	2	2	.	.	.	.	.	.	.	m
<i>Phoenicurus frontalis</i>	.	.	.	.	1	.	.	.	.	.	.	.	s
<i>Phoenicurus erythrogaster</i>	2	2	2	6	.	1	5	3	2	2	2	2	b,m
<i>Rhyacornis fuliginosus</i>	1	2	2	5	5	2	2	.	.	1	1	1	rN,E
<i>Saxicola macrorhyncha</i>	.	.	.	6	.	.	.	.	.	.	.	.	S
<i>Saxicola rubetra</i>	.	.	.	1	1	1	.	.	.	.	.	.	C
<i>Saxicola torquata</i>	6	3	3	3	5	5	2	3	3	2	2	2	b,m,w
<i>Saxicola caprata</i>	2	2	2	5	5	2	2	3	2	2	2	2	b,m,w
<i>Oenanthe isabellina</i>	2	1	3	5	5	3	3	3	3	3	2	1	r,b,m
<i>Oenanthe oenanthe</i>	.	.	1	2	3	2	2	3	1	.	.	.	s,m
<i>Oenanthe pleschanka</i>	.	1	2	2	3	2	3	3	3	3	2	.	s,m
<i>Oenanthe deserti</i>	6	1	2	2	1	5	5	2	3	2	2	1	b,m,w
<i>Oenanthe finschii</i>	2	2	2	5	5	2	5	3	2	2	2	2	rC,m,ws
<i>Oenanthe xanopryma</i>	2	2	2	3	5	2	2	3	3	3	2	2	b,m,w
<i>Oenanthe picata</i>	2	2	3	3	3	5	3	3	3	2	2	2	b,m,w
<i>Oenanthe monacha</i>	.	.	.	.	?	.	.	.	.	.	.	.	?W
<i>Oenanthe alboniger</i>	2	2	2	2	2	.	.	.	2	2	3	2	m,w
<i>Chaimarrornis leucocephalus</i>	2	2	2	3	1	1	5	5	1	2	2	2	rE,NE
<i>Saxicoloides fulicata</i>	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>Monticola saxatilis</i>	.	.	6	5	5	3	3	3	.	.	.	.	b,m
<i>Monticola cyclorhyncha</i>	.	.	.	2	5	5	.	1	.	.	.	.	bE
<i>Monticola solitarius</i>	6	6	2	5	5	5	3	2	1	.	.	6	b
<i>Myiophoneus caeruleus</i>	2	3	2	5	5	3	5	3	3	2	2	2	r
<i>Turdus unicolor</i>	.	1	.	.	.	.	.	.	.	.	.	.	E
<i>Turdus merula</i>	2	2	2	2	.	.	5	.	.	2	3	2	sNW,ws
<i>Turdus rubrocanus</i>	.	.	.	.	.	1	.	.	.	.	.	.	E
<i>Turdus ruficollis</i>	2	3	3	2	.	.	.	.	2	2	2	2	m,w
<i>Turdus pilaris</i>	.	1	.	.	.	.	.	.	.	.	.	.	E
<i>Turdus iliacus</i>	1	.	.	.	.	.	.	.	.	1	1	.	C,S
<i>Turdus viscivorus</i>	1	1	.	5	3	2	3	1	.	.	1	1	b,w
<i>Enicurus scouleri</i>	.	.	1	2	2	.	2	.	.	.	.	1	rC,E
<i>Enicurus maculatus</i>	.	.	1	2	2	.	.	.	.	.	.	.	rE
<i>Cettia cetti</i>	6	6	.	1	1	2	2	1	.	.	.	.	s
<i>Cisticola juncides</i>	.	.	.	.	.	.	.	.	.	.	.	.	E
<i>Prinia gracilis</i>	.	1	2	.	2	.	.	.	1	6	2	.	rS
<i>Prinia inornata</i>	.	.	.	.	.	.	.	.	1	.	.	.	E
<i>Prinia criniger</i>	1	1	1	.	.	1	1	.	.	.	1	.	E,N
<i>Scotocerca inquieta</i>	.	1	.	2	5	.	.	.	.	.	1	.	bC
<i>Locustella certhiola</i>	.	.	.	2	.	.	.	.	.	.	.	.	C
<i>Locustella naevia</i>	.	.	.	1	1	.	.	1	1	.	.	.	m
<i>Acrocephalus melanopogon</i>	.	1	2	6	5	.	.	1	1	.	1	.	m,bN
<i>Acrocephalus concinens</i>	.	.	.	.	1	.	.	.	.	.	.	.	N
<i>Acrocephalus agricola</i>	.	.	.	3	2	1	1	2	3	3	.	.	m
<i>Acrocephalus dumetorum</i>	.	.	.	1	5	.	1	3	3	3	.	.	b,m
<i>Acrocephalus scirpaceus</i>	.	.	.	.	5	.	1	.	.	.	.	.	b
<i>Acrocephalus stentoreus</i>	.	.	1	3	5	3	3	3	1	.	.	.	b,m
<i>Acrocephalus arundinaceus</i>	.	.	.	6	.	.	.	.	.	.	.	.	NW
<i>Hippolais pallida</i>	.	.	.	.	5	6	.	.	.	.	.	.	bN
<i>Hippolais caligata</i>	.	.	.	3	5	2	2	3	3	.	.	.	b,m
<i>Hippolais languida</i>	.	.	.	1	2	1	.	2	.	.	.	.	s

Mammals:

Macaca mulatta  
Canis lupus  
Vulpus cana  
Cuon alpinus  
All Felidae species (cats)  
Equus hemionus  
Cervus elaphus bactrianus  
Capra falconeri  
Ovis ammon

Birds:

Ciconia nigra  
Pelecanus crispus  
Platelea leucorodia  
All Falconiformes species (birds of prey)  
Otis tarda  
Numericus tenuirostris  
All Strigiformes species (owls)

Reptiles:

All Testudinidae species (turtles)  
Uromastyx species  
All Boidae species

Plants:

All Orchidaceae species.



	J.	F.	M.	A.	M.	J.	J.	A.	S.	O.	N.	D.	
Sylvia mystacea	.	.	1	6	1	6	.	.	.	.	.	.	sW
Sylvia nana	.	.	2	2	.	.	.	.	1	1	.	.	m
Sylvia hortensis	.	.	.	2	6	.	2	2	1	.	.	.	m
Sylvia nisoria	.	.	.	.	2	.	.	1	1	.	.	.	m
Sylvia curruca	.	.	2	3	3	5	2	3	4	3	2	.	b,m
Sylvia communis	.	.	.	.	2	5	5	.	2	.	.	.	bC,N,m
Phylloscopus occipitalis	.	.	.	2	2	5	2	.	.	.	.	.	bE
Phylloscopus tytleri	.	.	.	1	2	2	1	.	.	.	.	.	bE
Phylloscopus nitidus	.	.	.	1	1	.	1	1	.	2	.	.	m
Phylloscopus trochiloides	.	.	.	2	2	1	2	3	3	.	.	.	sNE,m
Phylloscopus magnirostris	.	.	.	1	.	.	.	.	1	.	.	.	mE
Phylloscopus proregulus	.	.	.	.	.	.	.	.	.	.	.	.	E
Phylloscopus subviridus	.	.	1	5	5	1	1	.	.	.	.	.	bE
Phylloscopus inornatus	.	.	.	2	2	.	2	3	3	2	.	.	bN,m
Phylloscopus schwarzi	.	.	.	.	1	.	.	.	.	.	.	.	N
Phylloscopus griseolus	.	.	.	5	5	2	3	2	.	.	.	.	bE,NE
Phylloscopus neglectus	.	1	.	2	1	.	2	.	.	.	.	.	m
Phylloscopus sindianus	.	.	.	2	1	.	.	.	.	.	.	.	N,E
Phylloscopus collybita	.	.	3	4	1	.	2	2	1	4	4	1	m
Regulus regulus	2	2	2	.	1	5	.	.	.	.	2	3	bE,w
Muscicapa sibirica	.	.	.	.	1	1	.	.	.	.	.	.	E
Muscicapa ruficauda	.	.	.	1	5	5	1	.	.	.	.	.	bE
Muscicapa striata	.	.	2	6	3	5	2	2	2	.	1	.	bE,m
Fidecula superciliaris	.	.	.	.	5	5	.	.	.	.	.	.	bE
Fidecula parva	1	.	2	3	.	1	.	1	2	3	1	.	m
Terpsiphone paradisi	.	.	.	2	5	2	2	.	1	.	.	.	b
Panurus biarmicus	.	.	.	.	.	.	.	.	.	.	.	.	sS,N
Turdoides caudatus	2	2	2	2	2	2	2	2	2	2	2	2	rS
Garrulax albogularis	.	.	.	.	.	.	.	.	.	.	.	.	E
Garrulax variegatus	2	1	.	2	2	2	.	.	.	.	.	2	sE
Garrulax lineatus	.	.	2	2	2	2	2	1	.	.	.	.	sN,E
Aegithalos leucogenys	.	.	2	5	2	5	.	.	.	.	.	.	rE
Parus rubidiventris	2	.	2	2	3	5	2	1	2	1	2	2	rE,N
Parus melalophus	.	2	2	2	5	5	.	.	.	.	.	.	rE
Parus cyanus	1	.	1	.	1	.	1	2	.	.	1	.	rN
Parus major	2	2	2	2	5	5	2	.	.	.	.	2	r
Parus bokharensis	.	1	.	.	5	.	1	.	2	.	1	6	rNE
Sitta leucopsis	.	.	.	.	2	5	.	.	.	.	.	.	rE
Sitta europaea	.	.	1	2	5	5	1	.	.	.	.	.	rE
Sitta tephronota	2	2	2	2	2	5	2	2	2	2	2	2	r
Trichodroma muraria	2	2	2	1	.	.	2	2	2	2	2	2	r
Certhia himalayana	.	.	2	1	5	5	2	.	2	1	1	2	rE,NW
Remiz pendulinus	.	.	2	1	1	.	.	.	.	.	.	.	m
Nectarinia asiatica	.	.	.	2	.	.	.	1	.	.	.	.	sE
Zosterops palpebrosa	.	.	.	.	.	.	.	.	.	.	.	1	E
Oriolus oriolus	.	.	.	2	5	3	3	3	1	.	.	.	sE
Lanius isabellinus	6	2	3	3	3	3	3	3	3	1	2	2	b,m,w
Lanius vittatus	.	.	.	2	2	5	2	2	.	.	.	.	b
Lanius schach	.	2	2	5	5	3	3	3	3	2	1	.	b,m
Lanius minor	.	.	.	2	5	2	3	3	.	.	.	.	b
Lanius excubitor	2	2	2	1	6	.	1	1	.	2	2	2	m,w
Lanius senator	.	1	1	.	.	.	.	.	.	.	.	.	S
Dicrurus macrocercus	.	1	6	3	5	2	2	2	1	.	.	.	bE
Dicrurus leucophaeus	.	.	.	1	1	1	1	.	.	.	.	.	sE
Garrulus lanceolatus	.	1	2	2	2	.	.	.	.	.	.	.	rE
Pica pica	3	3	3	5	5	3	5	3	3	3	3	3	r
Nucifraga caryocatactes	.	.	.	1	2	2	.	.	.	.	.	.	rE
Pyrrhonorax graculus	.	2	2	2	2	2	3	2	1	.	1	2	rC,E,NE
Pyrrhonorax pyrrhonorax	2	2	2	5	3	3	3	3	3	3	2	2	r



	<u>J.</u>	<u>F.</u>	<u>M.</u>	<u>A.</u>	<u>M.</u>	<u>J.</u>	<u>J.</u>	<u>A.</u>	<u>S.</u>	<u>O.</u>	<u>N.</u>	<u>D.</u>	
<i>Emberiza pusilla</i>	.	.	.	.	.	.	.	.	.	.	1	2	WSW,E
<i>Emberiza schoeniclus</i>	1	1	1	.	.	.	.	.	.	.	1	.	w
<i>Emberiza bruniceps</i>	.	.	.	3	3	5	3	4	2	1	.	.	b,m
<i>Emberiza melanocephala</i>	.	.	.	6	.	.	.	.	.	.	.	.	S
<i>Miliaria calandra</i>	2	2	.	.	5	.	.	.	.	?	.	.	bN,?r

Appendix 6

## BIRDS OF AFGHANISTAN

## ORDER PODICIPEDIFORMES

## Family Podicipedidae

1. Tachybaptus ruficollis (Pallas) little grebe  
T. r. capensis Salvadori. Passage migrant and winter visitor. Breeding recorded from Kole Hashmat Khan IV-IX/65,66 (JN), V/67 (AP) and Kuhak (Seistan) VII/04 (JC). Recorded from Kole Hashmat Khan III, VI-X/79 (JS), III/78 (TE), VII/74 (FR), IV/69 (JV), br IV/65-IV/66 (JN), Qargah X/79 (JS), summer 65,66 (JN), Sarobi III/78 (TE), Darunta IV/69 (JV), VI/75 (FR), Ab-i-Estada V/79 (JS), Bande Amir IX/78 (Wassey), Hamun-i-Puzak III/78 (RP), Lab-i-Baring (SW) XII/18 (NA).
2. Podiceps cristatus Linnaeus great crested grebe  
P. c. cristatus. Passage migrant and winter visitor, breeding in Seistan (KP, HE) Recorded from Kole Hashmat Khan IV-V/79 (JS) II/77 (TE), Qargah XII/64, II-III/65 (JN), X-XI/79 (JS), Sabs Au (E), juv. 1965 (JN), Sardeh IV/78 (TE), Darunta IV/69 (JV), XII-I/73-75 (FR), XII/71-VI, VIII/72 (ES), Hamun-i-Puzak III/78 (RP), II/04 (JC).
3. Podiceps grisegena (Boddaert) red-necked grebe  
P. g. grisegena. Breeding in Kole Hashmat Khan: summer/65 (JN) and elsewhere recorded from Kabul Valley II/77 (TE), Qargah II, IX/66 (JN).
4. Podiceps auritus (Linnaeus) Slavonian grebe  
P. a. auritus. Passage migrant (HE). Unsubstantiated record from Kabul Valley II/77 (TE).
5. Podiceps nigricollis Brehm black-necked grebe  
P. n. nigricollis. Passage migrant and winter visitor to lower elevations of Afghanistan, breeding at Kole Hashmat Khan: summer 65 (JN), V/67 (AP), IV/69 (JV). Recorded from Kole Hashmat Khan III-VIII/79 (JS), Qargah winter 65-66 (JN), Sarobi III/78 (TE), Jalalabad II, III, VI/66 (JN), X-XII/73-75 (FR), Kunar (E), Lashkargah (SW) X-XII/73-75 (FR) Ab-i-Estada IV/79 (JS), Bande Amir VI/76 (Wassey).

## ORDER PELECANIFORMES

## family Phalacrocoracidae

1. Phalacrocorax carbo (Linnaeus) common cormorant  
P. c. sinensis (Shaw). Summer visitor and passage migrant. Recorded from Kole Hashmat Khan V/76, III/78 (TE), IV/76 (RP), Qargah III-V/65 (JN), IV/74 (FR), X/79 (JS), Darunta (E) III-IV/72 (ES), Bande Amir IX/49, Kokcha River (N) VII/48 (KP), Arghandab (SE) III/1881 (CS), Seistan II/04 (NA), Hamun-i-Saberi III/49 (KP), Hamun-i-Puzak III/78 (RP), Lower Farah Rud III/49 (KP), Lashkargah juv. IV/74 (FR), Badghis (NW) III/1885 (CY).
2. Phalacrocorax pygmaeus (Pallas) pygmy cormorant  
 Passage migrant, probably breeding in Seistan (KP). Recorded from Danaghor (N) V/37 (RM).
3. Phalacrocorax niger (Vieillot) little cormorant  
 Straggler (KP). Recorded from Bala Murghab (N) XII/1884, I/1885 (JA).

## Family Pelecanidae

1. Pelecanus onocrotalus Linnaeus great white pelican  
 Passage migrant. Recorded from Hamun-i-Saberi III/49 (KP), Hamun-i-Puzak III/78 (RP), Kole Hashmat Khan V-VIII/79 (JS), Kabul bazar III/72 (No), Qargah 1 juv. VII/74 (FR).
2. Pelecanus crispus Bruch Dalmatian pelican  
 Passage migrant. Recorded from Hamun-i-Puzak III/78 (RP), Qargah IV,V/65 (JN), III/73 (FR), Kabul bazar V/65, III/66 (JN), IV/71 (No) Darunta IV/69 (JV).

## ORDER CICONIIFORMES

## Family Ardeidae

1. Botaurus stellaris (Linnaeus) bittern  
B. s. stellaris. Breeding, passage migrant and winter visitor. Reported from Kole Hashmat Khan IV-V/79 (JS), br V/67 (AP), Kabul bazar III/73 (FR), II/80 (JS), IV/37 (RM), N of Baghlan summer/78 (Ti), Kunar (E) X/73 (FR), Kandahar III/1881 (CS), Bala Murghab (N) XII/1884, Badghis (NW) II/1885 (JA), Farah Rud (W) XII/04 (JC), Bagrami III/34 (Ma).
2. Ixobrychus minutus (Linnaeus) little bittern  
I. m. minutus. Passage migrant and winter visitor. Breeding known from Lashkargah VII/73 (FR), probably Kole Hashmat Khan VI/72 (ES). Recorded from Kole Hashmat Khan V-IX/79 (JS), Kunar (E) V/73, V,VII/74 (FR) Kandahar IV,VI/1879 (St.J) Kwaja Ali (SW) IV/03 (JC), Faizabad (SW) IV/49 (KP), Bagrami V/34 (Ma), Panjao (C) VI/49, Chasma-i-Sher (N) VIII/49 (KP).

3. Nycticorax nycticorax (Linnaeus) night heron  
N. n. nycticorax. Breeding bird and winter visitor (KP). Recorded from Kabul IX/79 (JS), bazar IV/71 (No), Farah V/48, Shin Dand (S) VI/48, Lashkargah (KP), IV/73, juv. II/75 (FR), Jalalabad V/34 (Ma).
4. Ardeola ralloides (Scopoli) squacco heron  
 Probably in Afghan Seistan and Turkestan (HE). Recorded from Qargah V/74 (FR).
5. Egretta garzetta (Linnaeus) little egret  
E. g. garzetta. Passage migrant. Recorded from Kole Hashmat Khan V/79, Ab-i-Estada V/79 (JS), V/79, Dashte Nawar V/76 (TE), Hamun-i-Puzak III/78 (RP), Sarobi III/78, Gozara (NW) IV/72, Qargah IV/72 (ES).
6. Egretta alba (Linnaeus) great white egret  
E. a. alba. Passage migrant and winter visitor. Recorded from Kole Hashmat Khan III-VI/79 (JS), III/78 (TE), VI/33 (Ma), Qargah XI-XII/79, Ab-i-Estada IV/69 (JV), IV/79 (JS), V/76 (TE), III/77 (Savay), Mukur IV/69 (JV), Sardy Lake I/79 (JS), Dashte Nawar (E) IV/69, Hamun-i-Puzak III/78 (RP), Farah IV/49 (KP), Naghlu IV/69, Darunta IV/69 (JV), Jalalabad, Sarobi, Mazar-i-Sharif, Ghazni XII-VI/73-75 (FR), Kandahar II/1881 (CS).
7. Ardea cinerea Linnaeus grey heron  
A. c. cinerea. Common passage migrant and winter visitor. Recorded from all wetlands throughout the country. The only heron breeding colony is in Charbujak (Seistan) XI/71 (ES). Project records from Kole Hashmat Khan III-IX/79 (JS), Ab-i-Estada I/79 (JS).
8. Ardea purpurea Linnaeus purple heron  
A. p. purpurea. Passage migrant. Recorded from Seistan III/49, Farah IV/49 (KP), Qargah III/66 (JN).

## Family Ciconiidae

1. Ciconia nigra (Linnaeus) black stork  
 Passage migrant, probably breeding in Bamian (ES), in E Hazarajat (KP) and the high areas of Kandahar and Zabul (ES). Recorded from Panjao VI-VII/49, Doab VIII/49 (KP), Ajar Valley V-VI/77 (TE), Jam (C) V/77 (RP), Qargah IX/64 (JN), Jalalabad IV/69 (JV) Kandahar-Kalat V/74 (FR), Bande Amir VII/74, Surkhab (W) II/72, Qalat, Lake Dahla, Maruf (SE) VI/72 (ES), Bamian IV/37 (RM).
2. Ciconia ciconia (Linnaeus) white stork  
C. c. asiatica Severtzov. Passage migrant. Recorded from Salang Pass VIII/65 (JN), Kole Hashmat Khan V, VII/79 (JS), Dashte Nawar V/77, north of Charikar several captured, spring 64/65 (JN), Kabul (bazar) IV/71, III/72 (No), Darunta IV/69 (JV), Samangan (N) V/75 (FR).

## Family Threskiornidae

1. Plegadis falcinellus Linnaeus glossy ibis  
P. f. falcinellus. Passage migrant. Recorded from Kole Hashmat Khan III/66 (JN), Kabul V/37 (RM), Darunta IV/69, Ab-i-Estada IV/69 (JV), Pushut (E) III/1840 (St.J).

2. Platalea leucorodia Linnaeus

spoonbill

P. l. leucorodia. Passage migrant and winter visitor. Recorded from Kōle Hashmat Khan IV/IX/79 (JS), IX,X/64, IV/65 (JN), Kabul Valley IV/77, Qargah IV,VII,X/74, Ab-i-Estada V/76 (TE), III/77 (Savey), IV,V/79 (JS), VI/77 (Crook), IV/69, Darunta up to 130 III-VI/72 (ES), IV/69, Najhlu (E) IV/69 (JV), Qala-i-Nau (NW) III/1885 (JA).

## ORDER PHOENICOPTERIFORMES

## Family Phoenicopteridae

1. Phoenicopus ruber Linnaeus

flamingo

P. r. roseus Pallas. Scarce passage migrant and winter visitor, breeding in Ab-i-Estada and Dashte Nawar. Recent records from Ab-i-Estada: VI/69 5 100 (JV), IV/79 3 000+, V/79 6 000+ (JS) Dashte Nawar V/77 3 000 (TE). Other records from Kōle Hashmat Khan IX-X/64, Qargah IX-X/64, Sarobi IX/61 (JN) Kuhak (SW) IV/05 (JC).

2. Phoenicopus minor Geoffroy

lesser flamingo

Rare straggler (KP). Recorded from Kuhak (SW) VI/04 (JC).

## ORDER ANSERIFORMES

## Family Anatidae

1. Cygnus olor (Gmelin)

mute swan

Breeding in Seistan and winter visitor (KP).

2. Cygnus cygnus (Linnaeus)

whooper swan

Winter visitor in Seistan (KP). Recorded from Hamun-i-Saberi XII/04 (JC).

3. Anser albifrons (Scopoli)

white-fronted goose

A. a. albifrons. Rare passage migrant (KP). Recorded from Darunta V/72 (ES).

4. Anser anser (Linnaeus)

grey-lag goose

A. a. rubrirostris Swinhoe. Breeding in Seistan, winter visitor and passage migrant. Recorded from Hamun-i-Saberi III/49 (KP), XII/04, III/05 (JC), Hamun-i-Puzak III/78 (RP), Kabul bazar III/65 (No), Charburjak (SW) 150 XI/71, Juwien (SW) I/72, Lokhi (SW) I/72 (ES).

5. Anser indicus (Latham)

bar-headed goose

Breeding in Wahan and Pamir, passage migrant. Recorded from Zor Kol (Big Pamir) VIII/72 (JN), 72 (RP), Kol-e-Tshaqmaqin (Small Pamir) VII/71 (No) VIII/72 (JN).

6. Tadorna ferruginea (Pallas)

ruddy shelduck

Common passage migrant and winter visitor to all lakes and wetlands of Afghanistan. Breeding recorded at Hari Rud River 1884 (JA), Kōle Hashmat Khan IV/67 (AP) Kol-e-Tshaqmaqin (Pamir) VII/71 (No), Dashte Nawar and probably Ab-i-Estada (JN). Project records from Kōle Hashmat Khan III/79 (JS), III/76 (RP), Taimani Wat (E) III/80 (JS), Ab-i-Estada IV/76, Hamun-i-Puzak III/78 (RP).

7. Tadorna tadorna (Linnaeus) shelduck  
 Passage migrant and winter visitor and breeding in Ab-i-Estada 64, 65 (JN) Seistan IV/04 (JC). Recorded from Ab-i-Estada, I, IV, V/79 (IV: 1 000+) (JS), VI/77 (Crook), V/76 (TE), III/77 1 000+ (Savey), Dashte Nawar V/76, 77 (TE), Qargah V-XII/64, 65 (JN) Oxus river (N) II/1884 (CY), Lab-i-Baring XII/18 (NA), Kabul XI/34 (Ma).
8. Nettapus coromandelianus (Gmelin) cotton teal  
N. c. coromandelianus. Recorded from Qargah VII/73 (FR), VIII/73 (ES), VIII/64, Jalalabad VIII/66 (JN), Sarobi X/71 (ES).
9. Anas penelope Linnaeus wigeon  
 Common passage migrant and winter visitor to all Afghan wetlands. Recorded from January till June and September till December. Project records from Kole Hashmat Khan V-VI, IX-X/79, Qargah X-XII/79, II/80 (JS).
10. Anas falcata Georgi falcated teal  
 Straggler to SW Afghanistan (HE). Recorded from Bala Murghab (N) XII/1884 (JA).
11. Anas strepera Linnaeus gadwall  
 Passage migrant and winter visitor. Breeding in Wakhan and probably western Afghanistan. Recorded from Kole Hashmat Khan V, IX-X/79 (JS), XII/64-I-III/65 (JN), Qargah X-XII/79, Sardy Lake I/79, Ab-i-Estada IV/79 (JS), Dashte Nawar V/76 (TE), Wakhan, Small Pamir VII/71 (No), Kandahar I-III/1881 (CS), Bala Murghab (N) II/1885 (JA), Seistan III/05 (JC).
12. Anas formosa Georgi Baikal teal  
 The only record for Afghanistan is from Sarobi (E), 3 couples IX/71 (ES).
13. Anas crecca Linnaeus teal  
A. c. crecca. Very common passage migrant and winter visitor to Afghan wetlands. Breeding in Kole Hashmat Khan IV-VI/69 (AP). Project reports from: Hamun-i-Puzak III/78 (RP), Ab-i-Estada I, IV/79, Sardy Lake I/79 (JS), Kole Hashmat Khan III-VI/79, 400+ VIII-IX/79, Qargah X/79-II/80 (JS).
14. Anas platyrhynchos Linnaeus mallard  
A. p. platyrhynchos. Common passage migrant and winter visitor to Afghan wetlands, especially in Seistan and around Kabul. Breeding bird of Kole Hashmat Khan IV/67 (AP). Project reports from Kole Hashmat Khan IV-VI/79, VIII-IX/79, Qargah 300+ X/79-II/80, Ab-i-Estada I, IV, V/79, Ajar Valley III/79, Sardy Lake (E) I/79 (JS), Hamun-i-Puzak III/78 (RP).
15. Anas acuta Linnaeus pintail  
A. a. acuta. Common passage migrant and winter visitor to Afghan wetlands. Breeding in Kole Hashmat Khan VII/67, IX/69 (AP). Project reports from Hamun-i-Puzak III/78 (RP), Ab-i-Estada I, IV, V/79, Kole Hashmat Khan III-VII, IX-X/79, Qargah X-XII/79 (JS).



16. Anas querquedula Linnaeus garganey  
 Passage migrant. Recorded from Kole Hashmat Khan IV-V, VIII/79 (JS), VII-IX/64-65, III-VI/64-65 (JN), IV/69 (JV), Sarobi III/78 (TE), Daronta (E) IV/69 (JV), Ab-i-Estada IV/69 (JV), IV, V/79 (JS), Dashte Nawar V, VI/78 (TE), Panjah (Wakhan) IV/1874 (Bi), Darah-e-Shaur (Big Pamir) VIII/72 (JN), Bamian IX-X/49 (KP), Naghlu (E) IV/69 (JV), Kamdesh (E) IV/69 (JV), Mazar-i-Sharif, Baghlan, Daronta, Qargah III-VIII/73-75 (FR), Kandahar III/1881 (CS).
17. Anas clypeata Linnaeus shoveler  
 Common passage migrant and winter visitor. Breeding in Kole Hashmat Khan V, VII/67 (AP) and probably Seistan (JC). Recorded throughout the country. Project reports from Kole Hashmat Khan III-X/79, Ab-i-Estada up to 600+ I, IV, V/79 (JS), Sardy Lake I/79 (JS), Zor Kol (Big Pamir) VIII/72, Hamun-i-Puzak III/78 (RP).
18. Marmaronetta angustirostris (Ménétries) marbled teal  
 Passage migrant and breeding in Seistan (Kuhak) IV-V/05 (JC) and probably Turkestan (KP). Recorded from Kole Hashmat Khan V/65 (JN), Kandahar III/1881 (CS), De-Kamran - De Doda (JA), Kham-i-ab (Oxus R) VI/1884 (CY).
19. Netta rufina (Pallas) red-crested pochard  
 Passage migrant and winter visitor, breeding in the Pamirs and in Kole Hashmat Khan (JV). Recorded from Kole Hashmat Khan IV/69 (JV), Qargah XII/65-I, IX/66 (JN), XII/73 (FR), Sarkhad (Wakhan) VII/71 (JN), Sarobi II/77 (TE), Ab-i-Estada V/79 (JS), IV/69, Daronta IV/69, Naghlu IV/69 (JV), Kandahar III/1881 (CS), Lab-i-Baring (SW) XII/18 (NA).
20. Aythya ferina (Linnaeus) pochard  
 Common passage migrant and winter visitor. Breeding in Kole Hashmat Khan VII-VIII/65 (JN), V/67 (AP). Recorded in considerable numbers from all wetlands. Project records Kole Hashmat Khan up to 2 500+ III-X/79, Qargah X-XII/79 (JS), Bande Amir IX/78 (Wassey), Hamun-i-Puzak III/78 (RP), Ab-i-Estada IV-V/79 (JS).
21. Aythya nyroca (Güldenstädt) white-eyed pochard  
 Passage migrant and winter visitor, breeding in Seistan and the Hari Rud Valley (HE). Used to be common in the Kandahar area II/1881 (CS), 1878-1881 (St.J). Elsewhere recorded from Kole Hashmat Khan X/65, III/66 (JN), IV/69 (JV), Qargah I, III, IX/66 (JN), IV/74 (FR), Kila Wali (Murghab, N) III/1885, Maruchak (N), III/1885 (LY), Ab-i-Estada V/76 (RP).
22. Aythya fuligula (Linnaeus) tufted duck  
 Passage migrant and winter visitor. Recorded from Kole Hashmat Khan IV/79 (JS), V/76 (TE), III-IV/76 (RP), X-IV/64-66 (JN), IV/69 (JV), Qargah X-XI/79 (JS), X-IV/64-66 (JN), X-IV/73-75 (FR), Sardeh IV/78, Sarobi III/78, Kabul Valley II/78, Dashte Nawar V/76 (TE), Daronta IV/69 (JV), III/73, II/75 (FR), Hamun-i-Puzak III/78 (RP), Kandahar II/1881, Kokeran III/1881 (CS), Maimanah II/1885 (CY).
23. Aythya marila (Linnaeus) greater scaub  
 The only record is one pair from Qargah 20/XII/73 (FR).
24. Melanitta fusca (Linnaeus) velvet scooter  
M. f. fusca. One record from Qargah lake 26/I/73 (FR).

25. Bucephala clangula (Linnaeus) golden eye  
B. c. clangula. Rare passage migrant. Recorded from Qargah II/65 (JN), Farah Rud (Seistan) III/49 (KP), Seistan I/05 (JC), Bala Murghab I/1885 (JA), Maruchak (N) III/1885 (CY), Chahar Shamba (N) II/1885 (CY).
26. Mergus albellus (Linnaeus) smew  
 Rare passage migrant in eastern Afghanistan. Recorded from Kabul river west of Jalalabad II/48 (KP), Argandab river near Kokeran (SE) I/1881, Kandahar III/1881 (CS), Bala Murghab XII/1884 (JA), Maimanah II/1885 (CY).
27. Mergus serrator (Linnaeus) red breasted merganser  
 Rare winter visitor. Recorded from Daronta IV/69 (JV), Sarobi 5/III/73 (FR) and Bala Murghab (N) I/1885 (JA).
28. Mergus merganser Linnaeus goosander  
M. m. comatus Salvadori. Breeding in Wakhan, rare passage migrant and winter visitor (HE). Recorded from Sarkhad (Wakhan) VII/71, Kol-e-Tshaqmaqin (Small Pamir) VII/71 (No), Qargah II-III/65, I/66 (JN), XII/79 (JS), IV, XII/74 Daronta I, II/75 (FR).
29. Oxyura leucocephala (Scopoli) white headed duck  
 Scarce passage migrant and winter visitor, breeds in Seistan (HE). Recorded from Kole Hashmat Khan IV/69 (JV), III, VI, VIII/79 (JS), VI/77 (Crook), III/78 (TE), Ab-i-Estada V/77 (Savey), Hamuns (Seistan) common during winter 1904/05 (JC), Jameh river near Khelat-i-Ghilzai X/1879 (St.J), Maruchak III/1885 (CY).

## ORDER ACCIPITRIFORMES

## Family Accipitridae

1. Pernis apivorus (Linnaeus) honey buzzard  
 Only once recorded, from the Shibar Pass (C) 29 migrating V/77 (Thiollay).
2. Elanus caeruleus (Desfontaines) black winged kite  
E. c. caeruleus. Few records from Afghanistan: Kabul (Whistler, 1945), Pech valley, Wama (E) IV/48 (KP).
3. Milvus migrans (Boddaert) black kite  
M. m. migrans. Breeding up to 3 000 m elevation; M. m. lineatus (Gray), common passage migrant, M. m. govinda Sykes straggler (KP). Recorded throughout the country. Project records Kole Hashmat Khan: III-V/79, IX-X/79 (JS).
4. Haliaeetus leucoryphus (Pallas) Pallas's sea eagle  
 Passage migrant in Seistan (HE). Recorded from Hamun-i-Saberi I/05 (JC), Charburjak (SW) XI/71 (ES), Ab-i-Estada V/77 (Thiollay).
5. Haliaeetus albicilla (Linnaeus) white-tailed eagle  
 Passage migrant and winter visitor. Recorded from Hamun-i-Saberi III/49 (KP).

Appendix 2

## GAZETTEER OF LOCATIONS IN AFGHANISTAN

The list includes many of the locations mentioned in the lists of mammals, birds, reptiles and amphibians. For many of the locations only approximate longitudes and latitudes could be given and some could not even be traced on the available maps.

Abakhan Valley NE Afghanistan	Bamian = Bamiyan 34°50' 67°53'
Ab Gatsch = Abgaj 37°00' 72°37'	Bande Amir 34°50' 67°10'
Ab-i-Estada 32°32' 67°57'	Bande Turkestan area north of the Hindu Kush
Adreskan 33°35' 62°10'	
Aftao <sup>+</sup> 35°62'	Baqrabad 31°45' 61°00'
Ajar Valley = Hadjar V 35°25' 76°30'	Barfak 68°08' 35°25'
Akcha 36°57' 66°06'	Barikot 35°18' 71°36'
Akrobat Valley 34°57' 67°40'	Basawal = Bharawal
Aksu Small Pamir	BashGal = Bashgul Valley
Alingar R Nuristan	Bash Gul Valley tributary Kunar River
Amu Darya R NE boundary	Bassoolah SE Afghanistan
Andkhui 36°56' 65°05'	Bharawal 34°13' 70°53'
Anjuman Pass 35°50' 70°07'	Bel Chiragh 35°50' 65°11'
Aq Chah near Mazar-i-Sharif	Big Pamir region 37°10' 73°00'
Archy 37°05' 69°28'	Bisut 70°30' 34°34'
Argandab 32°30' 67°08'	Bokan 63°32' 35°43'
Arghestan 31°33' 66°33'	Bolan Cave 31°55' 66°58'
Ashraf Central Afghanistan	Burchao Pass 35°36' 64°37'
Atin Jalao Kokcha R	Bust = Bost = Qala Bist 31°28' 64°21'
Baba Wali 31°39' 65°40'	Byan Khel SE Afghanistan
Badakhshan NE Province	Chagai Sarai 34°48' 71°05'
Badghis region 35°50' 62°00'	Chah-i-Ab 37°25' 69°50'
Bagame Valley Nuristan	Chah-i-Angir 30°10' 65°55'
Baghlan 36°11' 68°44'	Chahar Shamba 35°45' 63°58'
Baghrami 34°30' 69°15'	Chaharasia central Afghanistan
Bagrabad = Baqrabad	Chailtan = Chohiltan central Afghanistan
Bala Murghab = Murghab 35°35' 63°20'	Chakar Darra 34°39' 69°00'
Balkh 36°47' 66°55'	Chakhcharan 34°28' 65°01'

6. Gypaetus barbatus (Linnaeus) bearded vulture, lammergeier  
G. b. aureus (Hablizl). Resident and common, but in small numbers in all mountain ranges, also in Nuristan and the Pamirs.
7. Neophron percnopterus (Linnaeus) Egyptian vulture  
N. p. percnopterus. Common summer visitor and breeding throughout Afghanistan, except for the highest parts. The Afghan population partly migrates to NW India during the winter (KP). Many records throughout Afghanistan between March and September, most numerous in the northwest. Winter visitor of Seistan XI/71 (ES).
8. Gyps bengalensis (Gmelin) white backed vulture  
Breeding in southern Afghanistan (HE). It followed the army in 1878/1879 from India into Afghanistan (St.J). Recorded from Panjao (C) VIII/72 (VV).
9. Gyps indicus (Scopoli) long-billed vulture  
Only once recorded from Pul-i-Khumri (C) III/72 (ES).
10. Gyps fulvus (Hablizl) griffon vulture  
G. f. fulvus. Common throughout the country, sometimes in large groups, breeding and winter visitor.
11. Gyps himalayensis Hume Himalayan griffon  
Sometimes considered conspecific with G. fulvus (in Voous, 1972). Summer visitor to eastern Afghanistan. Recorded from Jalalabad IV/69 (JV), Sarobi IV-VI/72 (ES), Salang Pass VII/70 (SM) (western-most limit of world range).
12. Aegypius monachus (Linnaeus) black vulture  
Breeding in southern Afghanistan (HE), passage migrant. Recorded throughout the country, especially in the northern and eastern parts, between September and May. Summer records from Hamun-i-Saberi (SW) VI/49 (KP), Murghab (N) VIII/72 (VV).
13. Circus gallicus (Gmelin) short-toed eagle  
C. g. gallicus. Passage migrant. Recorded from Kabul VII/72, Ghazni VI/72, Charkh (E) VII/72 (ES), Sarobi IV/69, Chagha Sarai IV/69, Mukur IV/69 (JV), Kandahar VIII/1879 (St.J), VI/72, Zabul VI/72 (ES), Salang S, Baghlan, Pol-i-Chamri (N) III-V/73-75 (FR), Ghorband IV/37, Shibar Pass IV/37, Bamian IV/37 (RM).
14. Circus aeruginosus (Linnaeus) marsh harrier  
C. a. aeruginosus. Throughout the year recorded from all Afghan wetlands. Locally breeding between III-VI/73-75 in the north; Kunduz (FR), Haibak (N) VIII/49 (KP). Project records from Kole Hashmat Khan III-IV, VIII-IX/79 (JS), west Nuristan VIII-IX/77 (RP), Ab-i-Estada IV, V/79 (JS).
15. Circus cyaneus (Linnaeus) hen harrier  
C. c. cyaneus. Passage migrant and winter visitor. Recorded from Qargah IV/66 (JN), Ab-i-Estada III/77 (Savey), Murghab XII/1884 (JA), III/1885, Sulfikar (Badghis) XI/1885, Chahar Shamba (N) II/1885 (CY), Kandahar I/1879 (St.J).

16. Circus macrourus (Gmelin) pallid harrier  
 Passage migrant and winter visitor. Recorded from many places between September and April, especially April (earliest record Taloqan-Faizabad (NE) 30/VIII/72, VV).
17. Circus pygargus (Linnaeus) Montagu's harrier  
 Passage migrant. Recorded from Ab-i-Estada V/79 (JS), IV/69 (JV), Kunduz IV/78 (TE), Mukur IV/69, Herat IV/69 (JV), Ghazni, Kabul IV/73-75 (FR), Murghab IV/1885 (CY), Barfak V/37 (RM), Logar III/34 (Ma), Farsi (C), Qala-i-Nau (N), Daulatabad (N) VIII/72 (VV).
18. Accipiter gentilis (Linnaeus) goshawk  
 FR recorded captured specimens from Charikar IV/73, II/74 and in Badakhshan XI/74.
19. Accipiter nisus (Linnaeus) sparrow hawk  
A. n. nisosimilis (Tickell). Passage migrant and winter visitor throughout the country, breeding in Nuristan (JV). Project records from Paghman, summer 79, Qargah XII/79-III/80 (JS), West Nuristan VIII-IX/77 (RP), A. n. nisus also passage migrant (HE).
20. Accipiter badius (Gmelin) shihra  
A. b. cenchroides (Severtzov). Passage migrant, breeding in NW Afghanistan (KP). Recorded from Kandahar IV/1881 (St.J), (CS), Chahar Shamba (N) II/1885 (CY), Ghorband (C) IV/37, Haibak (N) V/37 (RM), Haibak, Maimanah VII, VIII/49 (KP), II/1885 (CY), Khyber, Barikot Kamu (E), Kabul (JV).
21. Butaster teesa (Franklin) white-eyed buzzard eagle  
 Two records only from Kamu Valley (E) VIII/63 (JN) and Kole Hashmat Khan VIII/71 (ES).
22. Buteo buteo (Linnaeus) buzzard  
B. b. vulpinus (Gloger). Passage migrant. Recorded from Jalalabad-Sarobi IV/69, Kandahar IV/69 (JV), X/73-75 (FR), Ab-i-Estada IV/69 (JV), V/76 (TE), III/77 (Savey), Pol-i-Chamri (N), Baghlan, Kunduz, Mazar-i-Sharif X/73-75, Ghazni II, X/73-75, Samangan V, X/73-75 (FR), Katakak (C) IX/33 (Ma).
23. Buteo rufinus (Cretzschmar) long-legged buzzard  
B. r. rufinus. Passage migrant, breeding in Nuristan (KP), Safed Koh (WR) and probably Badakhshan. Many records throughout the country outside the high mountains, most common in open areas. Project records Ab-i-Estada I, V/79, Kabul I-III/80 (JS).
24. Aquila clanga Pallas spotted eagle  
 Passage migrant, usually solitary. Recorded from Kabul V/73, XII/74, IV/75 (FR), Qargah VIII/71, Sarobi XI/71 (ES), Jalalabad IV/69, Mukur IV/69 (JV), Ab-i-Estada III/77 (Savey), Bamian X/49 (KP), Kandahar II/75 (FR), II/1879 (St.J), Qalat (SE) XII/71, Arghestan (SE) VI/72, Juwien (SW) XII/71 (ES), Danaghori (N) V/37 (RM).
25. Aquila rapax (Temminck) tawny eagle  
A. r. nipalensis Hodgson. Passage migrant in eastern, central and southern Afghanistan. Recorded from Kole Hashmat Khan V/76 (TE), Qargah VI/75 (FR), Ab-i-Estada III/77 (Savey), Bande Amir X/49 (KP), VII/71, 72 (ES), Ghazni-Kandahar VI/72 (ES), Panjao (C), Jam, Farsi (C) VIII/72 (VV), Danaghori (N) V/37 (RM).

26. Aquila heliaca Savigny imperial eagle  
A. h. heliaca. Passage migrant and winter visitor. Recorded from Kabul II/72, Ghazni XI/71, Farah, Nimroz winter 71-72 (ES), Girishk (S) II/49 (KP), Kandahar winter 1882 (CS), Mazar-i-Sharif, Pol-i-Chamri (N), Baghlan (N) and Lashkargah (S) XI-II/73-75 (FR).
27. Aquila chrysaetos (Linnaeus) golden eagle  
A. c. daphanea Severtzov. Common passage migrant and winter visitor but found throughout the year in all mountainous areas although probably not breeding. Project records from Kole Hashmat Khan VIII/79, Ajar Valley III/79, Ab-i-Estada V/79 (JS), Herat Province V/77, W Nuristan VIII-IX/77 (RP).
28. Hieraaetus pennatus (Gmelin) booted eagle  
H. p. pennatus. Winter visitor and passage migrant, breeding in Central Afghanistan and Nuristan (HE). Recorded from Nuristan: Pech Valley III-IV, VIII/48 (KP), Sarobi, Kamdesh IV/69 (JV), Hindu Kush VIII/68 (JV), Ghazni VII/71, Mukur VI/72 and elsewhere (18 records between) VIII/71-IV/72 (ES), Ashraf (C) VIII/38 (Ma), Bamian, Ab-i-Estada, Bande Amir, Herat V/77 (Thiollay).
29. Hieraaetus fasciatus Vieillot Bonelli's eagle  
H. f. fasciatus. Passage migrant. Recorded from Bala Murghab XII/1884 (Clarke) and Bamian VIII/72, Sia Koh (C) VIII/72, Kokcha R. (Faizabad) VIII/72 (VV).

## Family Pandionidae

1. Pandion haliaetus (Linnaeus) osprey  
P. h. haliaetus. Passage migrant. Recorded from Kabul, Ghazni, Kundur XI-V/73-75 (FR), Kargah IX/65, IV/66 (JN), Kabul River basin IX/71-V/72, one in I/72, Enjil (NW) IV/72 (ES), Pashat (E) II/1840 (Griffith), Pech R (E) III/48 (KP), Sarobi (E) VI/77 (Crook), III/78 (TE), Sardeh IV/78 (TE), Daronta IV/69 (JV), Jalalabad XI-V/73-75 (FR), Kandahar IV/69 (JV).

## ORDER FALCONIFORMES

## Family Falconidae

1. Falco naumanni Fleischer lesser kestrel  
F. n. naumanni. Passage migrant, breeding in colonies in north-western Afghanistan: Gozara IV/72, Khusk IV/72 (ES). Recorded from III-V(-VI) and from VIII(-IX) throughout Afghanistan. Project records from Hamun-i-Puzak III/78 and Herat V/77 (RP), Bande Amir IX/78 (Wassey).
2. Falco tinnunculus Linnaeus kestrel  
F. t. tinnunculus. Passage migrant, F. t. stegmanni (Portenko) breeding and passage migrant. Widespread throughout Afghanistan and many records. Project records from Ab-i-Estada I, IV/79, Kabul I/79 (JS), Herat V/77, Hamun-i-Puzak III/78 (RP).
3. Falco vespertinus Linnaeus red-footed falcon  
F. v. vespertinus. Passage migrant. Recorded from Herat, Farah III-IV/72 (ES) and Bamian many IV/37 (RM).

4. Falco columbarius Linnaeus merlin  
F. c. insignis (Clark). Passage migrant. F. c. pallidus (Sushkin).  
 Passage migrant of southern Afghanistan (HE). Recorded from Kabul  
 II/80 (JS), IV/78 (TE), XII/74 (FR), Kunduz IV/78 (TE), Logar III,  
 XII/33 (Ma), Ajar Valley V/77 (TE), Bande Amir VII/78 (Wassey),  
 Ab-i-Estada III/77 (Savey), Kandahar I/1879 (St.J), X/1880, II/1881  
 (CS), Takht-i-Shah III/1904 (NA).
5. Falco subbuteo Gray hobby  
F. s. subbuteo. Passage migrant (HE) and breeding in northern  
 Afghanistan: Haibak V/37 (RM). Recorded from Kabul VIII-IX/79 (JS),  
 IV, VII, IX, X/65-66 (JN), VIII/33 (Ma) V-X/73-75 (FR), VI/77,  
 Karizmir VI/77 (Crook), Unai Pass IX/33 (Ma), Bamian IV/37, Doshi  
 V/37 (RM), Faizabad (NE) VIII-IX/65 (JN), Kokcha (NE) VIII/48, Nuristan  
 III/48 (KP), Kunduz, Samangan (S) V-X/73-75 (FR).
6. Falco jugger Gray laggar falcon  
 Breeding in southeastern Afghanistan. Recorded from Khairabad, Ghazni,  
 Jalalabad, Badakhshan (HE). Ghazni V. VII/49 (KP), II/75, Kabul VI/75  
 (FR), Kole Hashmat Khan IX/66 (JN), Sardeh (E) IV/78 (TE), E of  
 Jalalabad IV/69 (JV), Kunduz III/75 (FR), Jalalabad VI/37 (RM),  
 VIII/72 (VV), Ghazni-Herat V/77, Shibar Pass V/77 (Thiollay).
7. Falco cherrug Gray saker falcon  
F. c. cherrug. Passage migrant (Seistan). F. c. milvipes Jerdon.  
 Probably breeding in northwestern Afghanistan (HE). Recorded from  
 Sar-i-Bulak IX/33 (Ma), Sia Koh (C), Farsi (C) VIII/72, Kokcha VIII/72  
 (VV), Dashte Nawar V/76 (TE), VII/71, Bande Amir VII/72 Sarobi V/72 and  
 19 records elsewhere between VIII/71-IV/72 (ES), Murghab XII/1884 (CY),  
 Kunduz X/73, Mazar-i-Sharif II/74 (FR).
8. Falco pelegrinoides Temminck barbury falcon  
F. p. babylonicus Sclater. Resident and breeding, uncommon (HE).  
 Recorded from Kole Hashmat Khan I, IV, V/66 (JN), Kabul Gorge VI/77  
 (Crook), V/49, Herat, Obeh, Kwaja Chisht (W) VII/49 (KP), Kandahar II,  
 VII/1879 (St.J), Farsi, Jam, Sia Koh (C) VIII/72, Bande Amir (C)  
 VIII/72 (VV), Qala-i-Nau (C) V/77 (RP), Small Pamir VII/71 (CN),  
 throughout Afghanistan V/77 (Thiollay).

## ORDER GALLIFORMES

## Family Phasianidae

1. Tetraogallus himalayensis Gray Himalayan snowcock  
T. h. himalayensis. Resident of eastern Afghanistan, Nuristan and  
 Safed Koh.  
T. h. incognitus Zarudnyi. Resident of northern Afghanistan from the  
 Hindu Kush west till Bandi-Turkestan (HE). Recorded from Kabul bazar  
 I-III/65-66 (No) I-III, XII/79, I/80 (JS), W. Nuristan VIII-IX/77 (RP),  
 Wama (E) IV-V/48, Bamian VI, X/49 (KP), IV/37 (RM), Salang Pass (C)  
 VII/70 (SM), V/75 (FR), Dhap Darah (C) X/1884 (CY), Paghman (C) VI/33  
 (Ma), Safed Koh (E) summer 66 (CW), Small Pamir VIII/72 (GN), VIII/71  
 Big Pamir VII/70 (No), VIII/72, Wakhan VII/71 (GN). Sanglich (E) br  
 VII/37, Munjan Pass (E) VI/37, Safed Sang (NW) IX/39, Burchao Pass  
 (NW) X/39 (WK).

2. Alectoris chukar (Gray)

chukar

The chukar occur in high alpine valleys up to 4 500 m. A. graeca (Meisner) is the European partridge. Four subspecies are distinguished for Afghanistan: A. c. chukar, resident in Nuristan. Reported from Pashki and Stiewe II-IV/48 (KP), western Nuristan VIII-IX/77 (RP); A. c. koroviakovi (Zarudnyi) resident of western and southern Afghanistan; A. c. falki Hartert, resident of the central Hindu Kush and A. c. pallascens (Hume), resident of Badakhshan and the Pamirs. The last three subspecies are reported from Darra-i-Shikari (C) VI/49, Obeh (W) VII/49 (falki), Kokcha Valley (N) VII/48 (KP), Ajar Valley (C) common, III/79 (JS), Kabul Gorge VI/77, Faizabad (N) VI/77 (Crook), Hari Rud XI/1884, Karabagh XI/1884, Bala Murghab XII/1884 (JA), Logar VIII/33 (Ma), Kabul, Ghorband (C), Dar-e-Shikari (C), Bamian IV/37 (RM), Jalalabad IV/69 (JV).

3. Ammoperdix griseogularis (Brandt)

see-see partridge

Resident and widely distributed in Afghanistan. Two subspecies A. g. griseogularis, resident of the south and A. g. peraticus Koelz, resident of the northwest. Reported from Qala Birt (S), Tarnak Valley (S) V/49, Obeh, Murghab, Maimanah (N) VI-IX/49, Jalalabad-Sarobi II/48 (KP), Kabul bazar XI-IV/65, 66 (No), Dohab (C) VII/74 (FR), IV/37 (RM), Baghlan VI/74 (FR), Haibak (N) V/37, Barfak (N) V/37, Bamian IV/37 (RM), Lala Maidan (N) br VIII/37 (WK), Asraf (C) VII/33 (Ma), Qala Sarkari (N), Chash maegawan (N) IX/39, Burchao X/39 (WK), Karez-dasht (W) XI/1884 (JA), Kandahar V/1879 (St.J), I/1881 (CS), X/37, Khairabad (NE) VII/37 (WK), Gazechah III/1869 (FM).

4. Francolinus francolinus (Linnaeus)

black francolin

F. f. bogdanovi Zarudnyi. Resident of southern Afghanistan. Recorded from Farah Rud Estuary and Faizabad (SW) III/49 (KP), Seistan X/1884 (JA), Kuhak (SW) VIII/1904 (JC), Argandab, Kandahar 1880 (CS), Lashkargah 73/75 (FR), Girishk X/39 (WK).

5. Francolinus pondicerianus (Gmelin)

Indian grey partridge

F. p. mcranensis Zarudnyi and Hürms. Southern Afghanistan (HE), reported from Arghistan (SE) VI/72 (ES). Outside Afghanistan it occurs in Persian and Pakistan Baluchistan (Vaurie).

6. Coturnix coturnix (Linnaeus)

common partridge

C. c. coturnix. Summer visitor and passage migrant. Widely distributed as breeding bird (KP). Recorded from all parts, including Wakhan and Nuristan.

7. Pucrasia macrolopha (Lesson)

kokloss

P. m. castanea Gould. Nuristan. Griffith collected it in Chagha Sarai III/1840, KP from Gusalek and Wama III-IV/48.

8. Lophophorus impejanus (Latham)

Himalayan monal

Resident of Nuristan and Safed Koh. The sole collected specimen from Afghanistan was collected in Kurder (E) III/48 (KP). But also recorded from Chaga Sarai 1840 (WG), Mimagi (E) VIII-IX/77 (RP), Kamdesh (E) numerous (Robertson, 1896), Safed Koh numerous 1906 (CW).

9. Phasianus colchicus Linnaeus

common pheasant

P. c. principalis Sclater. Resident in northwestern Afghanistan, Murghab and Hari Rud Basins, P. c. bianchii Buturlin. Resident of Afghan Turkestan, f.e. the Amu Darya Valley. Last century still very



common as reported by Hutton, 1847 for Herat and Yate, 1884 and Aitchison, 1884 for the Hari Rud Valley, Scully, 1884-87 for Bala Murghab but at present very restricted and in high need of protection (KP).

## ORDER GRUIFORMES

### Family Rallidae

1. Rallus aquaticus Linnaeus water rail  
R. a. korejawi Zarudnyi. A winter visitor but possibly also breeding (HE). Recorded from Bamian X/49 (KP), Kunduz I/73 (FR), Lundi Rudbar X/1884, Murghab I/1885 (JA), XII/1884 (CY), Kabul IV/37 (RM).
2. Porzana porzana (Linnaeus) spotted crane  
 Passage migrant (KP). Recorded from Murghab IV/1885, Chabar Shamba (N) IV/1885 (CY), Danaghoori (N) V/37 (RM), Kandahar III/1881 (St.J).
3. Porzana parva (Scopoli) little crane  
 Passage migrant. Recorded from Kandahar II/1881 (CS) and Kuhak (Seistan) IX/1904 (JC).
4. Porzana pusilla (Pallas) Baillon's crane  
P. p. pusilla. Possible breeding in north and west Afghanistan, only recorded from Kole Hashmat Khan V/67 (AP), but mainly passage migrant. Recorded from Pashki (E) V/48, Shibar Kotal (C) VI/49, Bamian IX-X/49 (KP), Kole Hashmat Khan V-VI/79 (JS), Kabul IV/37 (RM), Chaharasia IV/33, Rahkol IX/33 (Ma), Kila Wali (N) IV/1885 (CY), Gaz-i-Cha (W) X/1884 (JA), Kandahar II/1881 (CS).
5. Crex crex (Linnaeus) corn crane  
 Possibly summer visitor and passage migrant (KP). Recorded from Maruchak (Murghab) V/1885 (CY).
6. Gallinula chloropus (Linnaeus) moorhen  
G. c. indicus Blyth. Breeding bird and possibly winter visitor. Recorded from Kole Hashmat Khan, VI/65 (JN), br. 67 (AP), IV-X/79 (JS), IV/69 (JV), V/77 (Crook), Baqrabad (Seistan) III/49, Chasma-i-Sher VIII/49 (KP), Darunta IV/69 (JV), Kandahar IV/1879 (St.J), Seistan 1904 (JC).
7. Porphyrio porphyrio (Linnaeus) purple coot  
P. p. seistanicus Zarudnyi. Resident and breeding in Seistan, possible passage migrant in Kabul area. Recorded from Hamun-i-Puzak III/78 (RP) and Jalalabad ? IX/77 (In), Seistan br 1880 (CS), Kabul XI/34 (Ma), Kandahar III/1881 (CS).
8. Fulica atra Linnaeus coot  
F. a. atra. Resident, passage migrant and winter visitor throughout Afghanistan. Breeding in Seistan and Kole Hashmat Khan V/67 (AP). Project records Kole Hashmat Khan 5 000 IV/76 (RP) and III/79 more than 10 000 (JS), p between III-X/79, Sardy Lake 1 000+ I/79, Ab-i-Estada 2 000 IV/79, 3 000 V/79 (JS), Ajar Valley (C) IX/78 (Wassey), Hamun-i-Puzak III/78 (RP), Qargah (Kabul) X/XII/79 (JS).

## Family Gruidae

1. Grus grus (Linnaeus) common crane  
G. g. lilfordi Sharpe. Passage migrant. Recorded from Qargah 200, 300 III/66, Salang 185 IX/65, Small Pamir 90 VIII/72 (JN), 160 IX/72 (RP), Ab-i-Estada 175 III/77 (Savey), Hamun-i-Puzak 350 III/78 (RP), Hamun-i-Saberi 9 III/49, Faizabad (SW) 150, 5, 8, 6 III-IV/49 (KP), Kabul flights of 300 in /73, III/74 and III-IV/75, Kunduz 100 III/75 (FR), Balkh 360 III/72, Mazar-i-Sharif 830 III/72 (ES).
2. Grus leucogeranus Pallas Siberian white crane  
 Regular passage migrant, in spring in the bazar in Kabul (HE). Recorded from Ab-i-Estada 76 spring /70 (Koning), 3 winter /70 (No), 2 spring /74 (RP), 56 III/77 (Savey).
3. Anthropoides virgo (Linnaeus) demoiselle crane  
 Passage migrant. Recorded from Kabul bazar III-IV/66, Charikar bazar III-IV/71, III/72 (No), Qargah 1 III/76 (JN), III/74 (FR), Ab-i-Estada 2 V/76 (RP), IV/79 (Tischoff), Dashte Nawar V/76 (TE), Kandahar 9, 51 XI/75 (FR), Daronta 2 IV/69 (JV).

## Family Otididae

1. Tetrax tetrax (Linnaeus) little bustard  
 Passage migrant and winter visitor. Kandahar XI/1880 (CS), Murghab III/1885, Chaman-i-Bed (Badghis) XII/1884 (CY).
2. Chlamydotis undulata (Jacquin) Houbara bustard  
C. u. macqueenii (Gray). Passage migrant, winter visitor and probably breeding. Recorded from Hari Rud (Kafir Qala) where in IV/1903 Zarudnyi found it abundant, VII/49, Girishk (S) II/49, Farah-Rud/Faizabad III/49 (KP), Logar III/34 (Ma), Seistan plentiful in spring, III/05 (JC), Kandahar common 1880 (St.J), Abdul Rahman XI/1881 (CS).
3. Otis tarda Linnaeus great bustard  
O. t. tarda. Passage migrant and perhaps breeding in Afghan Turkestan. Recorded from the Kabul bazar II/65 (No), Bala Murghab I/1885 (JA), Danaghoori (N) I/35 (Ma), leaving in IV/37 (RM).

## ORDER CHARADRIIFORMES

## Family Jacanidae

1. Hydrophasianus chirurgus (Scopoli) pheasant-tailed jacana  
 Endemic in the Seistan swamps (HE). Recorded from the Jalalabad Basin VI-VIII/66 with juveniles (JN).

## Family Rostratulidae

1. Rostratula benghalensis (Linnaeus) painted snipe  
R. b. benghalensis. Probably breeding in Wakhan, but not recorded since 1847. Jalalabad IV/1840 (WG), Kandahar 1847 (Hutton).

## Family Haematopodidae

1. Haematopus ostralegus Linnaeus

oyster catcher

H. o. longipes Buturlin. Rare passage migrant. Recorded from Farah Rud-Seistan IV/49, Hari Rud (Herat) VII/49 (KP), Ab-i-Estada IV/69 (JV), VIII/67 (Puget), IV/76 (RP), III/77 (Savey), Qargah VIII/72 (ES), V/66, Kabul bazar IV/66 (JN). Gozara (NW) IV/72 (ES).

## Family Recurvirostridae

1. Himantopus himantopus (Linnaeus)

black-winged stilt

H. h. himantopus. Common passage migrant, breeding in Ab-i-Estada (JN) but also elsewhere (Voous). Recorded from the wetlands throughout the country. Project records from Kole Hashmat Khan, IV-V, VII-X/79, Ab-i-Estada IV-V/79 (JS).

2. Recurvirostra avosetta Linnaeus

avocet

R. a. avosetta Linnaeus. Passage migrant, breeding in Ab-i-Estada (JN) and Dashte Nawar (Klockenhoff and Madel). Recorded from the wetlands throughout the country. Project records from Kole Hashmat Khan V-VI, VIII/79, Qargah X/79, Ab-i-Estada V/79 (JS).

## Family Burhinidae

1. Burhinus oedicnemus (Linnaeus)

stone curlew

B. o. harterti Vaurie. Breeding and probably resident. Recorded from Ab-i-Estada v/49 (KP), V/76 (TE), IV, V/79 (JS), Kabul market IV/72 (No), Herat VII/49, Bamian X/49, Hamun-i-Saberi (Seistan) III/49 (KP), Gulran (W) III/1885 (JA), Helmand (Lashkargah) large numbers IX/72 (VV).

## Family Glareolidae

1. Cursorius cursor (Latham)

cream-coloured courser

Breeding bird, passage migrant and winter visitor (HE). Recorded from Herat VII/49 (KP), V/77 (RP), lower Farah Rud (Seistan) III/49 (KP), Hamun-i-Puzak III/78 (RP), Mukur (E) VI/49, Balkh (N) VII/49, Dilaram (S) II/49 (KP), Dashte Nawar br VI/65 (JN), Kandahar-Mukur IV/76 (RP), Ab-i-Estada III/77 (Savey), Lijjikarez (S) III/1896 (FM), Nadali (S) III/03, Khwaja Ahmed (S) IV/03 (JC), Girishk (S) IV/69 (JV), Kandahar III/74, VII/73, Lashkargah III/73, IV/73, Herat IX/72 (FR), Karez, Khorasan VI/1885, Gulran III/1885 (JA).

2. Glareola pratincola (Linnaeus)

pratincole

Recorded from Ab-i-Estada VI/72, Maruf (SW) VI/72 (ES), Kandahar IV/1879 (St.J), Lashkargah (S) V/74, Mazar-i-Sharif IV/74 (FR).

3. Glareola glareola (Linnaeus)

collared pratincole

G. g. glareola. Paludan only mentions it as once recorded. Also recorded from Ab-i-Estada V/76 (TE), IV/76 (RP).

4. Glareola lactea Temminck

little pratincole

Breeding in the lower Kabul valley VI/68 (HE). Recorded along the Kabul R. IV/77 (TE), Qargah VII/73 (FR), Jalalabad IV/69 (JV), III/1840 (in Whistler).

## Family Charadriidae

1. Charadrius dubius Scopoli little ringed plover  
C. d. curonicus Gmelin. Summer visitor and breeding in Jalalabad (JN), common passage migrant and winter visitor. Recorded throughout the country. Project reports: Kole Hashmat Khan IV-VI, VII-X/79, Ab-i-Estada IV, V/79 (JS), Hamun-i-Puzak III/78 (RP).
2. Charadrius hiaticula Linnaeus ringed plover  
 Passage migrant. Recorded from Qargah IX-X/65 (JN), I, IV, V/73, Ab-i-Estada IX/72 (FR), I/79 (JS), Dashte Nawar V/77 (TE), Lashkargah (S) IV/73, Kunduz V/75, VIII/74, XII/73, Douchy (C) VII/74 (FR), Charburjak (SW) XI/71 (ES).
3. Charadrius alexandrinus Linnaeus Kentish plover  
C. a. alexandrinus. Breeding in Ab-i-Estada 67 (JN), VI/77 (Crook), passage migrant and winter visitor. Recorded from Qargah and Kole Hashmat Khan III-V, VIII-X/64-66 (JN), Ab-i-Estada V/49 (KP), III/77 (Savey), V/76 (TE), I, IV, V/79 (JS), IV/69 (JV), Dashte Nawar V/76, 77 (TE), Hamun-i-Puzak III/78 (RP), Hamun-i-Saberi III/49 (KP), Kandahar II/1881 (CS), Lashkargah, Kandahar, Kabul, Gardez II-V/73-75 (FR).
4. Charadrius mongolus Pallas lesser sandplover  
C. m. atrifrons Wagler. Passage migrant and breeding in the Small Pamir: Kol-e-Tshaqmaqtin br VII/71 (No), Terghen Qorum (not br) VIII/72 (JN). Other records from Ab-i-Estada, Dashte Nawar V/76, 77 (TE), Lijjikarez III/1896 (FM).
5. Charadrius leschenaultii Lesson greater sand plover  
 Passage migrant, breeding in Ab-i-Estada and Dashte Nawar VI/65 (JN), V/69 (JV). Recorded from Ab-i-Estada V/79 (JS), Dashte Nawar V/77 (TE), Bamian-Bande Amir VI/49 (KP), Shorawak (S) II/1896 (Finn), Qargah VIII/71 (ES), Ghazni-Mukur IV/69 (JV).
6. Pluvialis dominica (Müller) Asiatic golden plover  
P. d. fulva (Gmelin). Occasional passage migrant (HE). Recorded from Qalat-Ghilzai (S) X/1879 (St.J).
7. Pluvialis squatarola (Linnaeus) grey plover  
 Recorded from Ab-i-Estada IV/69 (JV), III/76 (TE).
8. Hoplopterus indicus (Boddaert) red-wattled lapwing  
H. i.aigneri Laubman. Breeding bird of southern and western Afghanistan (HE). Recorded from Herat (Hari Rud) VII/49, Lashkargah V/49, Farah IV/49 (KP), Hamun-i-Puzak III/78 (RP), Duganan III/1896 (FM), Jalalabad IV/69 (JV), Lashkargah (S) br V/74, IV/73, VII/73 (FR), Kandahar II, III (CS).
9. Chettusia gregaria (Pallas) sociable lapwing  
 Occasional passage migrant (HE). Recorded from Kabul bazar III/71, 72 (No), Kalayal X/34 (Ma), Ab-i-Estada IV/69 (JV).
10. Chattusia leucura (Lichtenstein) white-tailed plover  
 Passage migrant and winter visitor, especially of southern Afghanistan, perhaps breeding in the west (HE). Recorded from Kole Hashmat Khan IX/79 (JS), III/78 (TE), VIII, IX/65 (JN), Qargah VIII/65 (JN), Ab-i-Estada III/77 (Savey), Seistan III-IV/49 (KP), Hamun-i-Puzak III/78 (RP),

Kandahar XII/1880, III/1881 (CS), Helmand (Nadali), Shahgul (S) III/03 (NA), Nasratabad (SW), V/05 (CS), Lashkargah (S) II-IV/73-75 (FR), Kham-i-Ab (N) VI/1885 (RY).

11. Vanellus vanellus (Linnaeus)

lapwing

Common passage migrant and winter visitor between X and III-IV. Project records from Qargah XI/79-II/80 (JS), Hamun-i-Puzak III/78 (RP).

Family Scolopacidae

1. Calidris alba (Pallas)

sanderling

Passage migrant. Recorded from Ab-i-Estada V/49 (KP), V/79 (JS), IV/69 (JV), Kole Hashmat Khan V/65 (JN), spring/66 (AP).

2. Calidris minuta (Leisler)

little stint

Very common passage migrant in all Afghan wetlands. Project records from Kole Hashmat Khan IV-VI, VII-X/79, Ab-i-Estada I, IV, V/79 (JS), Hamun-i-Puzak III/78 (RP).

3. Calidris temminckii (Leisler)

Temminck's stint

Passage migrant. Recorded from Kole Hashmat Khan VIII-IX/79, Ab-i-Estada V/79 (JS), V/76 (TE), III/77 (Savey), Qargah V/65, IX/65 (JN), Sarobi IX/72 (ES), Danaghor V/37 (RM).

4. Calidris ferruginea (Pontoppidan)

curlew sandpiper

Passage migrant, recorded from Ab-i-Estada V, IX/64-66 (JN), IV/69 (JV), V/79 (JS), V/78 (TE), Qargah VIII-X/65 (JN), V/72 (ES), Kole Hashmat Khan V-VI, VIII-IX/79 (JS), Kabul River Basin VII-VIII/71-72 (ES).

5. Calidris alpina (Linnaeus)

dunlin

C. a. alpina. Scarce passage migrant and winter visitor. Recorded from Qargah X/71 (ES), IX/72, XI/73, I/74, V/75 (FR), Kole Hashmat Khan V/65 (JN), V, VIII/79 (JS), Ab-i-Estada I, V/79 (JS), V/76 (TE), III/77 (Savey), IV/69 (JV), Sardy Lake (E) I/79 (JS), Dashte Nawar V/77 (TE), Hamun-i-Puzak III/78 (RP), Farah IV/69 (JV), Lab-i-Baring XII/18 (NA), Nimroz (SW) XI/71, Herat IV/72 (ES).

6. Philomachus pugnax (Linnaeus)

ruff

Passage migrant. Recorded from Kole Hashmat Khan VII-XI/64-66 (JN), IV/69 (JV), III/78 (TE), V, VIII-IX/79 (JS), Qargah IV/74-75 (FR), Ab-i-Estada 2 000-4 000+ IV, V/79 (JS), 1 300 IV/69 (JV), 2 000+ III/77 (Savey), V/76, Dashte Nawar V/76 (TE), Sardeh Lake III/78 (TE), Hamun-i-Puzak III/78 (RP), Shahrastan (SW) III/03 (NA), Chahar Shamba (N) IV/1885 (CY), Panjah IV/1874 (Bi), Kandahar III/1881 (JC), Danaghor (N) V/37 (RM).

7. Lymnocyptes minimus (Brünnich)

jack snipe

Passage migrant and winter visitor (KP). Recorded from all over northern Afghanistan between X/1884-III/1885 (JA), Kandahar, Seistan 04 (CS, JC, St.J), Kabul IV/37 (RM), I/74 (FR), Kunduz I/73, X-XII/73, 74 (FR).

8. Gallinago gallinago (Linnaeus)

common snipe

G. g. gallinago. Breeding in NE, common passage migrant and winter visitor between X and IV. Project records from Kole Hashmat Khan III, V, VIII, IX/79 (JS).

Chaman = Kole Hashmat Khan	Faizabad SW 31°28' 61°32'
Chaman (Pakistan) 30°55' 66°27'	Farah 32°23' 62°07'
Charburjak 30°18' 62°04'	Farah Rud R SW Afghanistan
Charikar 35°02' 69°13'	Farakhulm 34°29' 68°09'
Chasma-i-Cher 36°05' 68°35'	Farkhar NE Afghanistan
Chasma Sabz 34°50' 61°35'	Farsi 34°23' 63°06'
Chasma Sabz Pass 34°53' 61°37'	Firindjal 35°00' 68°42'
Chiga Sarai = Chaga Sarai	Galichah 34°58' 61°14'
Chilik Turkestan	Gardez 33°37' 69°09'
Choiltan = Chahiltan	Gatai 31°05' 66°22'
Dahnai Ghar 34°24' 69°02'	Gaz-i-Chah 30°25' 63°15'
Danaghori = Dahana 35°54' 68°29'	Ghazni 33°37' 68°28'
Darband-i-Kul Rekhta 35°19' 63°27'	Ghilzai = Gilzai 34°30' 67°35'
Darqad region 37°25' 69°30'	Ghorband Pass 34°10' 69°29'
Darra-i-Chahidan Bamian	Girishk 31°50' 64°35'
Darrah-e-Shaur 37°20' 73°42'	Gulam-i-Maidan 35°00' 61°15'
Darra-e-Shikari central Afghanistan	Gulbahar 35°10' 69°16'
Darre Nau E. Afghanistan	Gumanara SW Afghanistan
Darunta = Daronta 34°30' 70°20'	Gungazai NE Afghanistan
Darwshan = Darweshan 31°02' 64°08'	Gusalek = Gursalek 35°00' 70°52'
Darwaz N. Badakhshan	Hadda Mts SE of Jalalabad
Dasht-i-Barang 32°05' 61°35'	Hadjiyak Pass 34°40' 38°15'
Dashte Nawar 33°44' 67°45'	Haibak 36°15' 68°03'
Dashte Margo region S. Afghanistan	Hamadan desert SW of Herat
Daulatabad NW 36°28' 64°52'	Hamun-i-Puzak 31°30' 61°43'
Daulatabad E 32°48' 62°39'	Hamun-i-Saberi 31°30' 61°15'
De Doda 31°10' 62°05'	Hariab R E of Herat
Delaram = Dilaram 32°10' 63°25'	Hari Rud R central and NW Afghanistan
De Kamran 31°08' 62°05'	Harut R central and S. Afghanistan
Deh Tang (Ghorband) 34°10' 69°29'	Hazara 32°48' 65°54'
Doab = Dohab 35°15' 68°00'	Hazarajat region 33°45' 66°00'
Djelallabad = Jalalabad	Helmand River S and SW Afghanistan
Doshy = Douchy 35°38' 68°43'	Herat 34°20' 62°10'
Dragon Ajar Valley	Hindu Kush central mountains
Dubrai S. Afghanistan	Imam Sahib 37°15' 68°45'
Enjil NW Afghanistan	Ishkashim = Ishkamish 36°43' 71°34'
Eshkashem = Ishkashim = Ishkamish	Ishkatul 36°24' 71°18'
Faizabad NE 37°05' 70°40'	Ishkarzir 36°02' 61°05'

9. Gallinago media (Latham) great snipe  
One record from Tolibai (Big Pamir) X/72 (RP) (but perhaps G. gallinago).
10. Gallinago solitaria Hodgson solitary snipe  
G. s. solitaria. Scarce winter visitor. Recorded from Bamian IX, X/49 (KP), Qargah I/80, Kole Hashmat Khan X/79 (JS), Deh Tang, Ghorband (C) X/1884 (CY), Chohiltan (C) XII/31 (Ma), Paghman IV/37 (RM).
11. Scolopax rusticola Linnaeus Eurasian woodcock  
Passage migrant (HE). Recorded from Arghandab (SE) between X-III/1880, 1881 (CS, St.J) Chahiltan XII/31 (Ma), Chahar Shamba (N) II/1885 (CY), Kunduz X/73, I/75 (FR).
12. Limosa limosa (Linnaeus) black-tailed godwit  
L. l. limosa. Passage migrant and winter visitor. Recorded from Kole Hashmat Khan V/66 (JN), V, VII/79 (JS), Qargah V/65 (JN), Ab-i-Estada IV/79 (Tischoff), Ab-i-Estada IV/69 (JV), III/77 (Savey), Hamun-i-Puzak III/78 (RP), Lab-i-Baring (SW) XII/18 (NA), Nasratabad (SW) V/05 (JC), Kandahar II/1881 (CS).
13. Limosa lapponica (Linnaeus) bar-tailed godwit  
Occasional passage migrant. Recorded from Ab-i-Estada IX/66 (JN), IX/72 (FR), V/76 (TE), Qargah IX/65 (JN).
14. Numenius phaeopus (Linnaeus) whilbrel  
Rare passage migrant. Recorded from Dashte Nawar V/77 (TE), Ab-i-Estada IV/69 (JV).
15. Numenius tenuirostris Vieillot slender-billed whimbrel  
One possible record from Ab-i-Estada V/79 (JS).
16. Numenius arquata (Linnaeus) Eurasian curlew  
N. a. arquata. Passage migrant and winter visitor. Recorded from Kabul IV/69 (JV), Kole Hashmat Khan VIII-IX/79 (JS), Ab-i-Estada III/77 (Savey), V/76 (TE), IV/69 (JV), IV, V/79 (JS), Dashte Nawar V/77 (TE), Hamun-i-Puzak III/78 (RP), Hamun-i-Saberi III/49 (KP), Hamuns common 1905 (JC), Daronta IV/69 (JV).
17. Numenius madagascariensis (Linnaeus) Far-eastern curlew  
Rare passage migrant. One record from Qargah V/75 (FR).
18. Tringa erythropus (Pallas) spotted redshank  
Passage migrant. Recorded from Kole Hashmat Khan XII/65, III/66 (JN), VI, VII, IX/79 (JS), Qargah V, IX, X/65 (JN), V/74 (FR), Ab-i-Estada IV, V/79 (JS), V/76 (TE), IV/69 (JV) Dashte Nawar V/77 (TE), Charburjak (SW) XI/71 (ES).
19. Tringa totanus (Linnaeus) redshank  
T. t. eurhinus Oberh. Breeding in Kol-e-Tshaqmaqtin (Small Pamir) VII/71 (No) and Dashte Nawar 70 (Klockenhoff and Nadel) and probably Ab-i-Estada (JN). Common passage migrant and winter visitor, recorded throughout Afghanistan. Project records from Kole Hashmat Khan VI-IX/79, Ab-i-Estada IV/79 (JS), Hamun-i-Puzak III/78, W. Nuristan VIII-IX/77 (RP), Qargah XI/79 (JS).

20. Tringa stagnatilis (Bechstein) marsh sandpiper  
Rare passage migrant (KP). Recorded from Kole Hashmat Khan IV-V, VIII-IX/64-66 (JN), V, VII-IX/79, Ab-i-Estada IV/79 (JS), IV/69 (JV), Hamun-i-Puzak III/78 (RP), Danaghor (N), Haibak (N) V/37 (RM), Bamian VII/74, Qargah IV, VII/73 (FR).
21. Tringa nebularia (Gunnerus) greenshank  
Passage migrant and winter visitor. Recorded from Kole Hashmat Khan (and Qargah) IV-V, VII-X/64-66 (JN), V/76 (TE), V-IX/79 (JS), Ab-i-Estada IV/69 (JV), IV-V/79 (JS), Bande Amir VI/77 (Crook), Hamun-i-Puzak III/78 (RP), Faizabad (NE) VII/72, Small Pamir VIII/72 (JN), Darunta IV/69 (JV), Kunduz X/73, Kabul I-V/73-75 (FR), Kandahar common 1880/81 (CS, St.J), Farakhulm IX/33 (Ma).
22. Tringa ochropus Linnaeus green sandpiper  
Common passage migrant and winter visitor. Many records from all the wetlands. Project reports from Kole Hashmat Khan VIII-IX/79 (JS).
23. Tringa glareola Linnaeus wood sandpiper  
Common passage migrant. Breeding in Qala Panjah, Ab Gatsh, Karish, Neshtkhawar (all Wakhan) VII-VIII/71 (No). Project records from Kole Hashmat Khan autumn /79, Ab-i-Estada IV, V/79 (JS).
24. Xenus cinereus (Güldenstädt) Terek sandpiper  
Occasional passage migrant (HE). Recorded from Kole Hashmat Khan (and Qargah) VII-IX/64-66 (JN), VII-IX/79 (JS), Ab-i-Estada V/65, IX/66 (JN), V/79 (JS), Dashte Nawar V/77 (TE), Qargah V/73, 75 (FR), VII-VIII/71, 72 (ES).
25. Actitis hypoleucos (Linnaeus) common sandpiper  
Breeding in the northern, central and eastern parts of Afghanistan, common passage migrant. Reported from all parts of Afghanistan. Project records from Kole Hashmat Khan V-IX/79, Ab-i-Estada IV, V/79 (JS), Hamun-i-Puzak III/78 (RP).
26. Arenaria interpres (Linnaeus) ruddy turnstone  
A. i. interpres. Passage migrant, recorded from Qargah VIII/66 (JN), V/74, 75 (FR), VIII/71 (ES), Kole Hashmat Khan V/79 (JS), Ab-i-Estada IX/66 (JN), V/76 (TE), IV/69 (JV), IX/72 (FR), Dashte Nawar V/76 (TE).
27. Phalaropus lobatus (Linnaeus) red-necked phalarope  
Passage migrant. Recorded from Bamian X/49 (KP), Kole Hashmat Khan (Qargah) V, VIII-X/64-66 (JN), V-VI, VIII/79 (JS), IX/72, VI/74 (FR), Ab-i-Estada V/76 (TE), IV, V/79 (JS), Waghdjir Valley (Small Pamir) IX/72 (RP), Adreskan (W) IV/69 (JV).

## Family Laridae

1. Larus ichthyaetus Pallas great black-headed gull  
Passage migrant. Recorded from Hamun-i-Saberi, Lower Farah Rud II-III/49 (KP), Seistan common III, IV/04 (NA), (JC), Hamun-i-Puzak III/78 (RP), Jalalabad IX/77 (In), Zor Kol (Big Pamir) VIII/72 (JN), Panjah (NE) IV/1874 (Bi).
2. Larus ridibundus Linnaeus black-headed gull  
Common passage migrant and winter visitor. Project records from Kabul III/80, Kole Hashmat Khan III-IX/79, Qargah X-XI/79, Ab-i-Estada IV/79, 1 000+ V/79 (JS), Hamun-i-Puzak III/78 (RP).



3. Larus genei Brème slender-billed gull  
Passage migrant, breeding in Ab-i-Estada, few thousands summer/66 (JN). Recorded from Kole Hashmat Khan and Qargah VIII-IX, III-V/64-66 (JN), VI/74 (FR), Ab-i-Estada V/49 (KP), IV/69 (JV), V/76 (TE), VI/77 (Crook), IV/79, 1000+ V/79 (JS), Dashte Nawar V/77, Sardeh Lake IV/78 (TE), Hamun-i-Saberi II/49 (KP), Kuhak (SW) IV/05 (JC).
4. Larus canus Linnaeus common gull  
L. c. heinei Homeyer. Passage migrant, one record from Qargah III/73 (FR). It occurs in the south Caspian districts of Iran to Turkmenya (Vaurie).
5. Larus fuscus Linnaeus lesser black-backed gull  
L. f. fuscus. Passage migrant. Recorded from Qargah (Kabul) V/66 (JN), Kabul bazar III/71 (No), Ab-i-Estada III/77 (Savey).
6. Larus argentatus Pontoppidan herring gull  
L. a. cachinnans Pallas and/or L. a. heuglini Bree. Passage migrant. Recorded from Qargah (Kabul) II/66 (JN), III/74 (FR), Dashte Nawar V/77 (TE), Ab-i-Estada V/49 (KP), IV/69 (JV), Hamun-i-Saberi III/49, Farah V/49 (KP), Jalalabad I/75 (FR).  
Rissa tridactyla (Linnaeus) kittiwake  
Recorded from Qargah (IX/65) but probably wrongly identified. It is recorded from the USSR coast, west Mediterranean and inland Turkestan (USSR) (Vaurie).

## Family Sternidae

1. Gelochelidon nilotica (Gmelin) gull-billed tern  
G. n. nilotica. Summer visitor, breeding in Ab-i-Estada 64-66 (JN) and probably also elsewhere, common passage migrant. Recorded throughout the country but not in the east and the Pamirs.
2. Sterna caspia Pallas Caspian tern  
S. c. tschegrava (Lepechin). Passage migrant, possibly breeding. Recorded from Kole Hashmat Khan V/79 (JS), Hamun-i-Saberi III/49 (KP), Hamun-i-Puzak III/78 (RP), Kuhak (SW) IV/05 (JC), Qargah IV, VI/74, 75 (FR), Daronta IV/69 (JV), IV/72 (ES), Sarobi VI/75 (FR), Ab-i-Estada IV/69 (JV).
3. Sterna aurantia Gray river tern  
One observation from Qargah VIII/66 (JN).
4. Sterna hirundo Linnaeus common tern  
S. h. hirundo. Common summer visitor and breeding recorded from Obekh (W) VII/49 (KP) and Kol-e-Tshaqmaqin (Small Pamir) VII/71 (No). Project records from Kole Hashmat Khan V, VI/79, Ab-i-Estada V/79 (JS), Hamun-i-Puzak III/78 (RP).
5. Sterna albifrons Pallas little tern  
S. a. albifrons. Summer visitor, breeding in Seistan and probably northwest (NE). Recorded from Kole Hashmat Khan V-VII, VIII/79 (JS), VI/79 (Crook), V/76 (TE), Qargah X/65 V/66 (JN), Ab-i-Estada V/79 (JS), V/76 (TE), IV/69 (JV), Baghlan VI/77 (Crook), Lashkargah V/49, Herat VII/49 (KP), Kham-i-Ab (NE) VI/1886 (CY), Khwaja Ahmed, Nasratabad (SW) V/05 (JC), Girishk (S) IV/69 (JV), Kunduz IV-IX/73-75 (FR).

6. Chlidonias hybrida (Pallas) whiskered tern  
C. h. hybrida. Probably passage migrant. Recorded from Kabul V/37 (RM), Kole Hashmat Khan V/76 (TE), V-VI, VIII-IX/64-66 (JN), V-IX/79 (JS), Ab-i-Estada V/79 (JS), IV/69 (JV), V/76, Dashte Nawar V/76 (TE), Daronta IV/69, Dilaram IV/69 (JV), Sarobi, Kabul, Jalalabad V-VII/73-75 (FR).
7. Chlidonias nigra (Linnaeus) black tern  
C. n. nigra. Unsubstantiated records from Ab-i-Estada VI/77 (Crook) and Dashte Nawar V/77 (TE).
8. Chlidonias leucoptera (Temminck) white-winged black tern  
Recorded from Ab-i-Estada VI/77 (Crook), V/79 (JS), Qargah V/74 (FR).

## ORDER PTEROCLIDIFORMES

## Family Pteroclididae

1. Pterocles coronatus Lichtenstein cornetted sandgrouse  
P. c. atratus Hastert. Breeding bird of the steppes of southern Afghanistan. Recorded from Girishk (S) V, VI/49, Shin Dand (W) VII/49 (KP), Bassoolah (SE) (Gr) and Shorawak (SE) 1896 (Ma), Lashkargah V/74 (FR). In the Helmand desert it was common but nowhere numerous, 1880 (St.J).
2. Pterocles senegallus (Linnaeus) spotted sandgrouse  
Recorded from southern Afghanistan (KP), Juwain-Farah III/78 (RP), Lijjikarez III/1896 (Ma) and Seistan XII/18 (NA). In XI/71 at Nimroz 450 were assembled at water pockets in the dry Helmand River bed (ES).
3. Pterocles orientalis (Linnaeus) black-bellied sandgrouse  
P. o. arenarius (Pallas). Uncommon passage migrant and winter visitor of the steppes throughout Afghanistan. Breeding in Dashte Nawar VI/65 (JN), northwest III/1885 (JA), Kandahar IV/1879 (St.J). Project records from Ab-i-Estada I, IV, V/79 (JS). Not recorded from Nuristan and the Pamirs.
4. Pterocles alchata (Linnaeus) pin-tailed sandgrouse  
P. a. caudacutus (Gmelin). Resident of northwestern and southern Afghanistan. Recorded from Farah (SW) VI/49 (KP), Kham-i-Ab (N) VI/1885, Andkhui (NW) X/1885 (CY), VII/49 (KP), Kandahar XII/1880 (CS).

## ORDER COLUMBIFORMES

## Family Columbidae

1. Columba livia Gmelin rock dove  
C. l. neglecta Hume. Resident of eastern Afghanistan, recorded from the Pech Valley (E) III-IV/48 (KP). C. l. gaddi Zarudnyi and Loudon. Resident of the whole of Afghanistan, except the eastern part. Recorded throughout the country, especially the river gorges (VV), common in the south and formerly especially attended in pigeon houses. Project records from Ab-i-Estada IV/79 (JS).

2. Columba rupestris Pallas eastern rock dove  
C. r. turkestanica Buturlin. Breeding bird of northeastern Afghanistan above 1 000 m elevation (RP). Recorded from Gusalek (E) III/48, Kokcha Valley (N) Warduj Valley (N) VII/49 (KP), Wakham Valley (NE) VII-VIII/71 (No).
3. Columba leuconota Vigors snow pigeon  
C. l. leuconota. Resident and breeding bird of eastern Afghanistan above 2 000 m elevation (RP). Recorded from the Parun Valley (E) V-VI/48, Weran (NE) VI/48 (KP), Qala-i-Pandja (NE) IX/65 (JN). The only record outside the area is from the Shibar Pass (C) VI/72 (ES).
4. Columba oenas Linnaeus stock dove  
C. o. yarkandensis Buturlin. Rare winter visitor to northern Afghanistan (HE). Recorded from Karabagh (NW) XI/1884 (JA) and probably Herat V/77 (RP).
5. Columba eversmanni Bonaparte eastern stock dove  
 Summer visitor of the Hari Rud, Paropamus and the northern and northeastern Hindu Kush, migrating through southern Afghanistan (HE). Recorded from Danaghor (N), Kunduz (N), Haibak (N) br V/37 (RM), Tirpul, Toman Aghi (NW) IV/1885 (JA), Maimanah VI/1885 (CY), Qala Nau br, Murghab, Maimanah, Mazar-i-Sharif VII-VIII/49, Herat, Obeh (W) br VII/49 (KP), Kuhak (SW) IV/05 (JC), Ajar V/77, Dashte Nawar V/77 (TE), and Ab-i-Estada III/77 (Savey).
6. Columba palumbus Linnaeus wood pigeon  
C. p. casiotis (Bonaparte). Breeding bird of northwestern, central and eastern Afghanistan. Recorded from Obeh (W) VII/49 (KP), Murghab br VIII/72, Daulatabad VIII/72 (VV), Kamdesh (E) IV/69 (JV), Pech-Parun Valley (E) IV, V/48, Kachari (NE), Kwaja Chist (N) br VII/48 (KP), Hariab (E) br IV/1879 (WR), Kandahar III/1879 (St.J), Ashrai (C) X/34 (Ma).
7. Streptopelia decaocta (Frisvaldszky) Indian ring pigeon  
S. d. decaocta. Common summer visitor to towns, villages and oases, not recorded from the forested east and Badakhshan but common in the lower Kabul Valley.
8. Streptopelia tranquebarica (Hermann) red turtle dove  
S. t. tranquebarica. Recorded from Jalalabad br V/37 (RM), common in Pakistan (Vaurie).
9. Streptopelia turtur (Linnaeus) turtle dove  
S. t. arenicola (Hartert). Common summer visitor to northwestern and northern Afghanistan, arrives in May and immediately starts breeding /37 (RM). Big migrating flocks were seen in Qala-i-Panja IX/72 (JN). Migrates also through southwestern Afghanistan (HE).
10. Streptopelia orientalis (Latham) rufous turtle dove  
S. o. meena (Sykes). Summer visitor to eastern and central Afghanistan and passage migrant. Recorded from Pech-Parun Valley (E) VIII-IX/77 (RP), V-VIII/48 Bamian IX-X/49, Gardez V/49, Farah VI/49 (KP), Jalalabad IX/77 (In), Abakhan Valley (NE) IX/71 (RP), Tolibai (NE) VIII/72, Darwaz VII/72 (JN), Atin Jalao (NE) VIII/72 (VV), Haibak (N), Doshi (N), Ghorband (C) V/37 (RM), Safed Koh arriving in large numbers V/1879 (WR).

11. Streptopelia senegalensis (Linnaeus) palm dove  
S. s. cambayensis (Gmelin). Resident or summer visitor to southern and eastern Afghanistan. S. s. ermanni (Bonaparte). Resident or summer visitor to northern Afghanistan (HE). Common and breeding in the Afghan towns and villages. In Kabul from I-XII/79 I-IV/80 (JS).
12. Streptopelia chinensis (Scopoli) spotted dove  
S. c. suratensis Gmelin. Eastern Afghanistan, presumably breeding bird of Kandahar and Kabul regions (HE). Recorded from Jalalabad V/37 (RM) and Kandahar summer 1880 (Hutton).

## ORDER PSITTACIFORMES

## Family Psittacidae

1. Psittacula krameri (Scopoli) rose ringed parakeet  
P. k. borealis (Neumann). Introduced in Jalalabad and Kabul (HE). Many records also from Kunduz (FR).
2. Psittacula himalayana (Lesson) slaty-headed parakeet  
P. h. himalayana. Summer visitor of Nuristan and Safed Koh (HE). Recorded from Pech Valley (E) V, VII/48 (KP), Kunar Valley IV/69 (JV), Pashat IV/1840 (WG).
3. Psittacula eupatria (Linnaeus)  
P. e. nipalensis (Hodgson). Recorded from Jalalabad X/69, probably not introduced (AP). Nearest records from Peshawar in Pakistan (Ali et al).

## ORDER CUCULIFORMES

## Family Cuculidae

1. Cuculus canorus Linnaeus cuckoo  
C. c. subtelephonus Zarudnyi. Summer visitor and breeding bird. Recorded throughout Afghanistan. First records in April and May, last in September. In the northern part the great reed warbler is recorded as common host V/37 (RM).

## ORDER STRIGIFORMES

## Family Strigidae

1. Otus brucei (Hume) striated scops owl  
One single record from Panjah (Wakham, NE) IV/1874 (Bi).
2. Otus scops (Linnaeus) scops owl  
O. s. pulchellus (Pallas). Perhaps breeding in Kandahar (KP). Recorded from Kandahar IV/1879 (St.J), IV/1881 (CS).
3. Bubo bubo (Linnaeus) eagle owl  
B. b. nikolskii Zarudnyi. Resident of the whole of Afghanistan except for Badakhshan (HE). Recorded from Girishk (S) V/49, Obek (W) VII/49, Haibak (N) VIII/49 (KP), Kabul bird market V/79 (JS), Ajar Valley

- V/77 (TE), Danaghor (N) V/37 (RM), Kandahar II/1879 (St.J).  
B. b. auspicabilis Dementiev (or B. b. hemachalana Hume). Resident of Badakshan (HE). Recorded from Tolibai (Big Pamir) VIII/72 (JN), Kol-e-Tshaqmaqtin (Small Pamir) VIII/72 (RP).
4. Glaucidium brodiei (Burton) collared pygmy owl  
G. b. brodiei. Recorded from the forests of Payopari Char (E) X/69 (AP), Kamdesh (E) IV/69 (JV).
5. Athene noctua (Scopoli) little owl  
A. n. bactriana Blyth. Widespread but uncommon resident. Recorded throughout the country except Nuristan. Breeding recorded in Kunduz V/37 (RM), Pamir (Langar) VII/71 (No).
6. Strix aluco Linnaeus tawny owl  
S. a. biddulphi (Scully). Resident of northeastern and eastern Afghanistan, south to Safed Koh (HE). Recorded from Hariab Valley (E) V-VI/1879 (WR), and Gusalek (E) II/48 (KP).
7. Asio otus (Linnaeus) long-eared owl  
A. o. otus. Passage migrant and winter visitor and probably breeding in the Paropamisus (NW) (HE). Recorded from Baqrabad (Seistan) III/49 (KP), Darre Naw (E) VIII, IX/77 (RP), Kunduz winter/73/74, I/75, Sarobi XI/74, Lashkargah II/75 (FR), Kandahar ruins common 1880 (St.J), Maimanah III/1885 (CY), Murghab II/1885, Maruchak II/1885 (JA).
8. Asio flammeus (Pontoppidan) short-eared owl  
A. f. flammeus. Passage migrant and winter visitor. Recorded from Ab-i-Estada V/76 (TE), III/77 (Savey), Farah Rud Estuary (SW) III/49 (KP), Kunduz XII/73, Mazar-i-Sharif II/74 (FR), Murghab XII/1884 (JA), Baghrani (C) III, X/33, Logar X/33 (Ma).

## ORDER CAPRIMULGIFORMES

## Family Caprimulgidae

1. Caprimulgus mahrattensis Sykes Sykes' nightjar  
 Southern Afghanistan, probably summer visitor (HE). Recorded from Lijjikarez (SE) 1896 (FM), Helmand br IV-IX/05 (JC).
2. Caprimulgus asiaticus Latham Indian nightjar  
C. a. gurgaoni Koelz. Straggler, recorded from NW Afghanistan: Tirlul IV/1885, Khusan IV/1885 (JA).
3. Caprimulgus europaeus Latham European nightjar  
C. e. unwini Hume. Summer visitor and passage migrant. Recorded from Lashkargah V/49 (KP), Kandahar V/1879 (St.J), Panjao (C) VI/49, Bamian IX/49, Balkh (N) VII/49 (KP), Bande Amir (C) VIII/70 (SM), Qalai Pandja (NE) VIII/71 (No), Kabul X/73 (FR), VI/34 (Ma), Khusan (NW) V/1885 (JA), Kila Wali V/1885 (CY), Logar VI/33 (Ma).
4. Caprimulgus aegypticus Lichtenstein Egyptian nightjar  
C. a. arenicolor Severtzov. Summer visitor of western and south-western Afghanistan (HE). Recorded from Faizabad (SW) III-IX/49 (KP), and USSR part of Amu Darya (N) (Vaurie).

## ORDER APODIFORMES

## Family Apodidae

1. Apus apus (Linnaeus) swift  
A. a. pekinensis (Swinhoe). Common summer visitor and passage migrant throughout the country. First records February in Kandahar, March in Kabul. Project records from Kabul X/79, Kole Hashmat Khan V-IX/79, Ab-i-Estada IV, V/79 (JS).
2. Apus melba (Linnaeus) Alpine swift  
A. m. tuneti Tschusi. Common summer visitor and passage migrant. Recorded throughout the country except Nuristan. First spring records Darunta, hundreds II/72 (ES), last record October, Kabul. Project records Kabul X/79, Kole Hashmat Khan IX/79 (JS), Darre Nau (E) IX/77, Herat br V/77 (RP).
3. Apus affinis (Gray) little swift  
A. a. galilejensis (Antinori). Summer visitor and passage migrant. Probably winter visitor of the Lower Kabul Valley. Breeding recorded from Kandahar 1879 (St.J), Chagai Sarai (E) IV/69 (JV). Elsewhere recorded from Jalalabad IX/77 (In), I/75 (FR), IV/69 (JV), Sarobi III/78 (TE), Ab-i-Estada IV/69, Kalat, Kandahar IV/69 (JV), Murghab (NW) VII/49, Farah, Faizabad (S) IV, V/49 (KP).

## ORDER CORACIIFORMES

## Family Alcedinidae

1. Halcyon smyrnensis (Linnaeus) white-breasted kingfisher  
H. s. smyrnensis. Resident in lower Kabul and Kunar Valley (NE). Recorded from Kunar III/1840 (WG), Darunta II/48 (KP), II/77 (TE), II/79 (JS), Jalalabad IX/77 (In), XII/73, XI/74, I/75 (FR), IV/69 (JV), Rost (E), Chagha Sarai IV/66 (AP).
2. Alcedo atthis (Linnaeus) common kingfisher  
A. a. atthis. Summer visitor, resident of southern and eastern Afghanistan. Breeding in Sarobi, Kunduz, Baghlan /73-75 (FR), common in Kandahar and Seistan (JC, CS, St.J). Elsewhere recorded from Kabul VIII-XII/79 (JS), VI/49 (KP), Kole Hashmat Khan VIII-IX/79, Ajar Valley (C) III/79 (JS), Bamian IX-X/49 (KP), Bande Amir VIII/70 (SM), IX/33, Logar VI/33 (Ma), Chagha Sarai (E), Kamdesh (E), Darunta (E) IV/69 (JV), Kunduz V/37 (RM), Shin Dand (W), Farah, Herat, Faizabad (SW) IV-VII/49 (KP), VI/77 (Crook), Mazar-i-Sharif VIII/49 (KP), Pech Valley VIII/77 (RP).
3. Ceryle rudis Linnaeus pied kingfisher  
C. r. leucomelanura Reichenbach. Breeding bird and probably resident of eastern Afghanistan. Recorded from Pech River (E) II-III/48, Darunta (E) II/48 (RP), IV/69 (JV), XI/74, I/75 (FR), II/77 (TE), II/79 (JS), Sarobi XI/73 (FR), Jalalabad II/48 (KP), IX/77 (In), Laghman V/37 (WK), Hindu Kush VIII/72 (VV).
4. Ceryle lugubris (Temminck) great pied kingfisher  
C. l. guttulata Stejneger. Recorded along the Kamdesh River (E) in Kamu and Kamdesh IV/69 probably breeding (JV). It occurs in Kashmir (Pakistan) (Vaurie).

## Family Meropidae

1. Merops orientalis Latham little green bee-eater  
M. o. beludschicus Neumann. Recorded from Jalalabad V/ (HE), V/37, Torkhan (E) V/37 (RM).
2. Merops superciliosus Linnaeus blue cheeked bee-eater  
M. s. persicus Pallas. Common summer visitor to the plains and passage migrant. Breeding recorded from Sarobi 71, 72 (ES), Danaghor (N), Kunduz and Jalalabad V/37, large breeding colonies (RM), Seistan V/05 (JC). Many records between end of April and September (Seistan October). Project record from Herat surroundings V/77 (RP).
3. Merops apiaster Linnaeus European bee-eater  
 Summer visitor and numerous passage migrant. It breeds in considerable numbers at moderate elevations. Common between middle of April and August. Project records from Kole Hashmat Khan, Qargah VIII/79, Ab-i-Estada V/79 (JS), Herat, Qala-i-Nau V/77 (RP).

## Family Coraciidae

1. Coracias garrulus Linnaeus roller  
C. g. semenowi Loudon and Tschusi. Very common summer visitor and passage migrant throughout the country between March and September.
2. Coracias benghalensis (Linnaeus) Indian roller  
C. b. benghalensis. Recorded as breeding bird from Afghan Siestan only (HE). Further records from Hariab Valley V/1879 (WR), Jalalabad IV/69 (JV).

## Family Upupidae

1. Upupa epops Linnaeus hoopoe  
U. e. epops. Common summer visitor and passage migrant, a few are winter visitors (KP). In Kabul present throughout the year (JS), Ab-i-Estada IV/79 (JS).

## ORDER PICIFORMES

## Family Picidae

1. Jynx torquilla Linnaeus wryneck  
J. t. torquilla. Passage migrant. Recorded from Kabul XI, XII/74 (FR), VIII-XI/79 (JS), Kole Hashmat Khan IV/65 (JN), IV/79 (JS), Pashki (E) V/48, Kunar Valley (E) III/48 (KP), Ab-i-Estada IV/79 (JS), Bande Amir VIII/70 (SM), Qala-i-Pandja (NE) IX/65 (JN), Kunduz IV/74, Mazar-i-Sharif IV/74, Jalalabad I/75, Kandahar II/74 (FR), VIII/1879 (St.J), IV/1881 (CS), Girishk, Adreshkan (W) IV, V/69 (JV), Logar IV/34 (Ma), Bamian very common IV/37 (RM).
2. Picumnus innominatus Burton speckled piculet  
P. i. innominatus. Recorded from Nuristan: Begame Valley XII/63, Gusalek VII/65 (JN). Outside Afghanistan it occurs from NW Punjab (Pakistan) eastwards (Vaurie).

3. Picus squamatus Vigors scaly-bellied green woodpecker  
P. s. squamatus. Resident of eastern Afghanistan from Safed Koh and Kabul to Nuristan (HE). Recorded from Gusalek II/48 and Wama (E) IV/48 (KP), Pech River (E) br V, VI/66 (LT), Kabul VIII/72 (VV), Gardez VI/35 (Blanchard), Logar XII/33 (Ma). P. s. flavirostris (Menzbier). Resident of southern and western Afghanistan. Recorded from Herat and Obeh (W) VII/49 (KP), Padda Sultan, De Kamran (W) X/1884 (JA).
4. Dendrocopus himalayensis (Jardine and Selby) Himalayan pied woodpecker  
D. h. albescens (Baker). Summer visitor of eastern Afghanistan. Recorded from the Pech-Parun Valley (E) III-VI/48 (KP), Pech River (E) br V, VI/66 (LT), Barikot (E), Kamdesh (E) IV/69 (JV), Hariab Valley (E) abundant br V-VI/1879 (WR).
5. Dendrocopus auriceps (Vigors) brown-footed pied woodpecker  
D. a. auriceps. Resident in Nuristan. Recorded from Pashat, Chagha Sarai III/1847 (WG), Pech Parun Valley IV-V/48 (KP), Pech River (E) br V, VI/66 (LT), Kamdesh, Kamu (E) IV/69 (JV), Pashat, Bharawal III/1840 (WG).
6. Dendrocopus leucopterus (Salvadori) white-winged spotted woodpecker  
Resident in northern Afghanistan from the Paropamisus and northern Hindu Kush till Badakhshan. Recorded from Faizabad (NE), Jurm and Supian (NE) VII/48, Haibak (N) VIII/49 (KP), N. Salang VII/70 (SM), Darqad X/78 (Wassey), Salang I/73 (FR), Doshi (N), Haibak (N), Baghlan V/37 (RM).

## ORDER PASSERIFORMES

## Family Alaudidae

1. Ammomanes cincturus (Gould) bar-tailed desert lark  
A. c. zarudnyi Hartert. Breeding bird of southern Afghanistan. Recorded from Nimroz (W) I/72, Helmand, Kandahar II-III/72 (ES), Lab-i-Baring XII/15 (NA).
2. Ammomanes deserti (Lichtenstein) desert lark  
Three subspecies are distinguished A. d. iranica Zarudnyi. Resident of the southwest and west. Recorded from Shin Dand VII/49, Seistan II-III/49 (KP), Farah VIII-IX/37, Kandahar X/37 (WK).  
A. d. orientalis Zarudnyi and Loudon. Resident of the north, recorded from Murghab (N) and Maimanah VII/49 (KP), Faizabad VI/77 (P&C), Doab, Barfak, Haibak (N) IV, V/37 (RM) Tala (N), XII/37, Chigzar (N) IX/37, Kamard (N) VIII/37, Turkestan IX/37 (WK). A. d. phoenicuroides (Blyth). Resident of the east and south, recorded from Kole Hashmat Khan IX, X/65 (JN), Kabul VIII/72 (VV), IV/37 (RM), Turukpul (E of Kabul) br V/37, Nazhil (E) V/37 (WK), Lataband III/78 (TE), Jalalabad II/48 (KP), IV/69, Chaga Sarai IV/69 (JV), Kandahar III-V/1879 (St.J), I/1881, Malkarez IV/1881, Dubrai IV/1881 (CS).



Jalalabad 34°27' 70°25'  
 Jalalabad Valley lower Kabul  
     R Valley  
 Jam 34°23' 64°22'  
 Jawzjan Northern Province  
 Juwein = Juwien 31°42' 61°36'  
 Jurm 36°50' 70°46'  
 Kabul 34°30' 69°10'  
 Kabul Gorge E. of Kabul  
 Kabul R E. Afghanistan  
 Kachari Kokcha Valley  
 Kafiristan = Nuristan  
 Kajakay = Kayakal 32°20' 65°05'  
 Kalat = Qalat 32°08' 66°53'  
 Kalat-i-Chilzai = Kalat  
 Kalat us Seraj 34°40' 70°18'  
 Kambao 35°05' 61°26'  
 Kamiab = Kham-i-Ab  
 Kamdesh 35°25' 71°22'  
 Kamu Valley 35°23' 71°23'  
 Kandahar 31°37' 65°47'  
 Kang 31°07' 61°52'  
 Karabagh = Qarabagh C 34°50' 69°08'  
 Karabagh = Qarabagh NW 34°57' 61°46'  
 Karawal Khana 35°43' 63°14'  
 Karez Dasht 33°17' 61°30'  
 Karizmir 34°30' 69°10'  
 Kargah = Qargah 34°30' 69°02'  
 Kathagan Pass <sup>+</sup> 37°69'  
 Kathakhak 34°50' 68°00'  
 Khairabad NE Afghanistan  
 Kham-i-Ab 37°32' 65°42'  
 Khanabad 36°42' 69°08'  
 Khash R central and S Afghanistan  
 Khawak Chapchi Pass 35°40' 69°51'  
 Khelat-i-Chilzai Badghis  
 Khossik Pass SE Afghanistan  
 Khost 33°22' 70°01'  
 Khost Fereng central Afghanistan  
 Khusan = Kohsan 34°38' 61°11'  
 Khushk 32°51' 71°05'  
 Khwaja Ahmed S. Afghanistan  
 Khwaja Ali 30°25' 63°15'  
 Khwaja Chist = Chisht-i-Sharif  
     34°19' 63°45'  
 Kila Wali = Qala Vali 35°47' 63°44'  
 Kin 32°15' 61°35'  
 Koaja Palounda Badghis  
 Koh-i-Baba central mountain spur  
 Koh-i-Duzdan = Kouh Dazd 32°13' 63°29'  
 Kotal-i-Dalez Wakhan  
 Kohsan 34°38' 61°11'  
 Kokcha 37°00' 69°30'  
 Kokeran S. Afghanistan  
 Kole Hashmat Khan 34°30' 69°10'  
 Kol-e-Tshaqmaqin 37°15' 74°12'  
 Kuhak SW Afghanistan  
 Kunar R 34°45' 70°55'  
 Kunduz 36°47' 68°51'  
 Kushk 34°53' 62°30'  
 Kustaki 35°29' 70°56'  
 Lab-i-Baring SW Afghanistan  
 Laghman Province 34°35' 70°08'  
 Lal 34°30' 66°15'  
 Lalander 34°25' 69°10'  
 Lashkargah = Lashkari Bazar 31°30' 64°20'  
 Lataband Pass 34°30' 69°34'  
 Lijjikarez Samuli SE Afghanistan  
 Lokhi SW Afghanistan  
 Logar Valley  
 Lundi 30°12' 62°45'  
 Madan Sorb Cave 35°00' 68°42'  
 Magnaul 36°05' 70°58'  
 Maidan 32°28' 66°45'  
 Maidan Tal 34°27' 68°50'  
 Maimanah 35°55' 64°46'

3. Alaemon alaudipes (Desfontaines)      Hoopoe lark, bifaciated lark  
A. a. doriae (Salvadori). Resident of southern Afghanistan. Recorded from Tarnak Valley (S), Pirzada (W of Kandahar), IV/49, Dilaram II-VI/49, Hamun-i-Saberi II-IV/47 (KP), Farah-Juain IV/76, Hamun-i-Puzak III/78 (RP), Kandahar IX/1879 (St.J), 73-75 (FR), Girishk X/37 (WK), IV/69 (JV), Kuhak (SW) IX/04 (JC), Zagin (W) XI/1881 (JA), Kang (SW), Salyan (SW) XI/37 (WK).
4. Melanocorypha calandra (Linnaeus)      calandra lark  
M. c. psammochroa Hartert. Resident of northern Afghanistan and passage migrant. Recorded from Khanabad br V/37 (RM), Maimanah, Murghab, Mazar-i-Sharif, Pul-i-Khumri(N) VIII/72 (VV), Mazar-i-Sharif winter 73-75, large flocks (FR), Andkhui (NW) XI/37, Taligan (NE) VIII/37 (WK). Often in bird markets (Kabul, Charikar).
5. Melanocorypha bimaculata (Ménétries)      eastern calandra lark  
M. b. torquata Blyth. Breeding bird in northern and northeastern Afghanistan, common passage migrant (HE). Breeding recorded from Tashkotal (W) V/37 (RM). Many records throughout the country. Often kept as pet and sold in bird markets, especially during the migratory season.
6. Calandrella cinerea (Gmelin)      short-toed lark  
C. c. longipennis (Eversmann). Summer visitor and breeding bird of the north. Probably br in Danaghor V/37 (RM). Very common passage migrant, sometimes in enormous numbers (Kandahar, 1879, 1880 (St.J), Kole Hashmat Khan VIII-X/79 (JS), Ab-i-Estada IV/79 (JS), 5000+ III/77 (Savey)). Recorded throughout the country, except the high central, eastern and northeastern mountains. Often kept in cages, especially during the migratory seasons. The birds are sometimes intermediates between C. c. longipennis and C. c. artemisiana Banikovski.
7. Calandrella acutirostris Hume      Hume's short-toed lark  
C. a. acutirostris. Breeding bird of the Alpine steppes of western, central and northeastern Afghanistan, east to Gardez. Here rather common in small numbers between April and August, some remained in the winter 71/72 (ES). Breeding recorded in the Shibar Pass and Unai Pass V/37 (RM). Also recorded from Sust-e-Bala (Pamir) VIII/72 (JN), Panjah (NE) IV/1874 (Bi) and Hariab Valley V/1879 (WR).
8. Calandrella rufescens (Vieillot)      lesser short-toed lark  
C. r. persica (Sharpe). Breeding bird of Seistan (HE). C. r. heinei (Homeyer). Passage migrant and winter visitor (HE). Recorded from Mukur (E), br (E) V/49 (KP), X/37 (WK), Ab-i-Estada V/76 (TE), II/77 (Savey), V/79 (JS), Dashte Nawar V/76 (TE), Sardeh Lake IV/78 (TE), Nimroz (SW) common winter visitor 71/72 (ES) Douchy (C), Sarobi, Jalalabad I/73-75, Kandahar VII/73-75, Ghazni XI/73-75 (FR) Qala-i-Nau (N) VIII/72 (VV), Kang (SW), Farah (SW) (heinei) XI/37 (WK).
9. Calandrella raytall (Blyth)      Indian sand lark  
C. r. ?adamsi (Hume). One record from Jalalabad IX/77 (In).
10. Galerida cristata (Linnaeus)      crested lark  
G. c. magna Hume. Resident. Widely distributed throughout the country, but not in Nuristan and the Pamirs. It avoids the high mountains and in the winter it is found at lower altitudes, common in the south and west. Many records, project records Ab-i-Estada I, IV, V/79 (JS).

11. Lullula arborea (Linnaeus) wood lark  
L. a. pallida Zarudnyi. One single record from Nimroz (SW) I/72 (ES).  
 Vaurie gives as easternmost record SW Iran.
12. Alauda gulgula Franklin lesser skylark  
A. g. inconspicua Severtzov. Resident of Afghanistan except for Badakhshan. Reported throughout the country, common between April and September. Breeding reported from Sanglich (NE) VII/37 (WK), Kabul, Bamian, Danaghori IV-V/37 (RM). A. g. lhamarum Meinertshagen. Resident of Badakhshan. Recorded from Tili (NE) VII/48, Qala-i-Pandja (NE) IX/65 (JN), Wakhan common till VII/71 (No).
13. Alauda arvensis Linnaeus skylark  
A. a. dulcivox Hume. Summer visitor to northern Afghanistan, passage migrant. Recorded from Panjah (NE) IV/1874 (Bi), Gandachesma (Badakhshan) VII/37 (WK), Ardewan Kotal (W) VII/49 (KP), Ab-i-Estada I/79 (JS), V/76 (TE), Hamun-i-Puzak III/78 (RP), Herat br V/77 (RP), Samangan, Mazar-i-Sharif, Ghazni and Lashkargah migrating II, X/73-75, Salang V/75 (FR), Bande Amir VIII/72, Dalautabad (N) VIII/72 (VV), Kandahar II/1881 (CS), Aftao (W) II, XII/1884 (JA), Seistan X-XI/37, Andkhui (NW) X/39, Balkh XI-XII/37, Jalalabad XII/37 (WK).
14. Eremophila alpestris (Linnaeus) shore lark  
E. a. albigula (Bonaparte). Resident of the central, eastern and northeastern mountains and breeding above 2 500 m elevation. Recorded throughout this area, common in Wakhan and Pamirs (No), (JN).  
Eremophila bilopha (Temminck) Temminck's horned lark  
 The record from the Kabul Gorge VI/77 (P&C) probably refers to E. alpestris. The easternmost record in Vaurie is from the Syrian deserts.

#### Family Hirundinidae

1. Riparia paludicola (Vieillot) brown-throated sand martin  
R. p. chinensis (Gray). Recorded breeding from Kabul V/37 (WK), and also considered common in VI (HE), hundreds E of Sarobi VIII, IX/71 (ES).
2. Ripara riparia (Linnaeus) sand martin  
R. r. riparia. Uncommon breeding bird of Afghanistan (HE). Recorded from Barfak (N) grasslands V/37 (RM). R. r. diluta (Sharpe and Wyatt). Passage migrant. Recorded throughout the country. Project records Ab-i-Estada IV-V/79 (JS).
3. Ptyonoprogne fuligula (Lichtenstein) pale crag martin, rock martin  
 (Syn. Hirundo obsoleta) P. f. pallida (Hume). Perhaps breeding in the south Lijjikarez and Samuli III/1896 (FM). Crook recorded it from the Salang Pass VI/77.
4. Ptyonoprogne rupestris (Scopoli) crag martin  
 Summer visitor and breeding bird to the mountains of north, central and east Afghanistan. Recorded throughout that area, between April (first 30 March, Kabul and 15/II/74 Sarobi (FR)) and beginning November.

5. Hirundo rustica Linnaeus swallow  
H. r. rustica. Common summer visitor and breeding bird, passage migrant between the end of February (Kabul: March) and September. Recorded throughout the country.
6. Hirundo smithii Leach wire-tailed swallow  
H. s. filifera Stephens. Localized but common summer visitor (HE). Recorded throughout the country except in the extreme west and south and the higher mountains from April till October (November).
7. Hirundo daurica Linnaeus red-rumped swallow  
H. d. rufula Temminck. Summer visitor to northern and eastern Afghanistan (KP). Recorded throughout this area, between the end of March and October.
8. Hirundo fluviicola Blyth Indian cliff swallow  
Recorded from Kabul V/37 (WK) and Sarobi XII/71 (ES).
9. Delichon urbica (Linnaeus) house martin  
D. u. urbica. Summer visitor to the mountainous areas of central and northeastern Afghanistan. In the Pamirs nesting places till 4 000 m elevation. Also passage migrant. Many records between February and September.

## Family Motacillidae

1. Anthus novaeseelandiae (Gmelin) Richard's pipit  
A. n. waitei Whistler. Indian subspecies, probably a summer visitor to southern Afghanistan (KP). Recorded from Gatai (S) IV/1881 (CS) and Kandahar V/1881 (St.J).
2. Anthus sylvanus (Hodgson) upland pipit  
Probably resident of eastern Afghanistan. One record from Andarab-Banu VII/33 (Ma).
3. Anthus campestris (Linnaeus) tawny pipit  
A. c. campestris. Passage migrant in winter in south Afghanistan (Vaurie), recorded from Bamian IX-X/49 (KP), IV/37 Kabul IV/37 (RM).  
A. c. griseus Nicoll. Scarce breeding bird of northern Afghanistan and passage migrant. Recorded from Tashkotal (N) and Haibak (N) br IV, V/37 (RM). Various records throughout the country as passage migrant.
4. Anthus similis Jerson long-billed rock pipit  
A. s. decaptus Meinertzhagen. Summer visitor to northeastern Afghanistan, passage migrant. Recorded from Faizabad (SW) III/49 (KP), Safed Koh br VI/1879 (WR), Kandahar VI/1879 (St.J). A. s. jerdoni Finsch. Jalalabad V/37 (RM).
5. Anthus hodgsoni Richmond olive-backed tree pipit  
Passage migrant, three subspecies breed in USSR and winter in India. Recorded from Qala-i-Pandja, common IX/65 (No), common VII/72 (JN).
6. Anthus trivialis (Linnaeus) tree pipit  
A. t. trivialis and A. t. haringtoni Witherby. Common spring passage migrant. Recorded from Wama and Pashki (E) IV-V/48 (KP), Paghman IX/33 (Ma), IV/37, Kabul IV/37 (RM), IV/34 (Ma), IV, XII/74 (FR),

- I, IV/80 (JS), Kabul valley IV/77, N of Kunduz IV/78 (TE), Bande Amir VIII/70 (SM), Bamian IV/37 (RM), IX-X/49, Panjao (C) VI/49 (KP), Kunar (E) II/1840 (WG), Khyber, Jalalabad, Chagha Sarai, Kamu (E), Kamdesh (E), Sarobi (E) IV/69 (JV), Panjah (NE) IV/1874 (Bi), Kandahar IV/1881 (CS).
7. Anthus pratensis (Linnaeus) meadow pipit  
A. p. pratensis. Passage migrant of Afghanistan Turkestan (N) (HE).
  8. Anthus cervinus (Pallas) red-throated pipit  
 Passage migrant. Recorded from Jalalabad IX/77 (In), Ab-i-Estada V/79 (JS), Hamun-i-Puzak III/78 (RP), Panjah (NE) IV/1874 (Bi), Kabul IV/37 (RM).
  9. Anthus roseatus Blyth Hodgson's pipit  
 Summer visitor of the east (Safed Koh) (Vaurie), one record from Maruchak (NW) III/1885 (CY).
  10. Anthus spinoletta (Linnaeus) water pipit  
A. s. japonicus Temminck and Schlegel, one record Paghman IV/37 (RM),  
A. s. coutelii Audouin. Passage migrant, winter visitor. Recorded from Ab-i-Estada-Mukur III/77 (Sa), Hamun-i-Puzak III/78 (RP), Dashte Nawar III/77, Kabul Valley II/77 (TE), Kandahar common XII/1880-iii/1881 (CS), (St.J), Murghab I/1885 (JA) Chahar shambai (E) III/1885 (CY), Chaharasia (C) III/34 (Ma), common between X-III/73-75 in more humid areas (FR).
  11. Motacilla flava Linnaeus yellow wagtail  
M. f. melanogrisea (Homeyer). Uncommon summer visitor and breeding bird of northern and western Afghanistan. Recorded from Farah Rud Estuary (SW) III/49, Herat VII/49, Chasma-i-Cher (W) III/49 (KP). Five subspecies are known as passage migrant, M. f. flava, M. f. beema (Sykes) only in April, M. f. thumbergi Billberg, large flocks, M. f. feldegg Michahelles breed in northern Afghanistan (Vaurie) and M. f. leucocephala (Przewalski). Recorded throughout the country. Project records Kole Hashmat Khan IV-V, VII-IX/79 Ab-i-Estada IV, V/79 (JS), Hamun-i-Puzak III/78, Western Nuristan VIII-IX/77 (RP).
  12. Motacilla citreola Pallas yellow-headed wagtail  
M. c. calcarata Hodgson. Breeding bird of central, northwestern and northeastern Afghanistan, passage migrant. Recorded from Wakhan Big and Small Pamir br VII-VIII/71 (No), 72 (JN), Bamian br IV/37, Ghorband Valley br IV/37, Doab (C), Shibar Pass IV/37 (RM), Kandahar few br, common or passage 1879/80 (St.J), Miyan Deh, Tilli (Badakhshan) VII/48, Darra-i-Shikari (C), Panjao (C), VI/49, Herat VII/49, Bamian IX/49 (KP). M. c. citreola and M. c. werae (Buturlin) are common passage migrants. Project records Kole Hashmat Khan IV-VI, VII/79, Ab-i-Estada IV/79 (JS) Western Muristan VII-IX/79 (RP).
  13. Motacilla cinerea Tunstall grey wagtail  
M. c. cinerea. Summer visitor, passage migrant and winter visitor. Breeding recorded from Paghman, very common 64-66 (JN), IV/37 Ghorband IV/37 (RM), Hariab Valley (E) 1879 (WR). Many records as passage migrant and few as winter visitor. Project records Paghman VII/79, Qargah XII/79 (JS).

14. Motacilla alba Linnaeus

white wagtail

M. a. personata Gould. Common summer visitor and breeding in north (RM) and Safed Koh (WR), passage migrant and winter visitor.

M. a. dukhunensis Sykes and possibly M. a. baicalensis Swinhoe are passage migrants and winter visitors from October on. Project records from Kole Hashmat Khan IV-V, IX/79, Ajar Valley III/79, Ab-i-Estada IV, V/79, Kabul winter /79, IV/80 (JS), Western Nuristan VIII-IX/77, Big Pamir 72 (KP).

## Family Campephagidae

1. Pericrocotus ethologus (Bangs and Phillips) flame-coloured minivet

P. e. favillaceus Bangs and Phillips. Scarce but widely distributed summer visitor of eastern Afghanistan (KP), and the lower Kabul Valley (Vaurie). Recorded from Pech-Parun Valley (E) IV-V/48 (KP), Kamdesh (E) IV/69 (JV), Otupore (E) IV/1840 (WG), Nimla (E) II/77 (TE).

## Family Pycnonotidae

1. Pycnonotus leucogenys (Gray)

white-cheeked bulbul

P. l. leucogenys. Resident of the east (HE). Recorded from Laghman V/37 (WK), Jalalabad V/37 (RM), 73/75 (FR), IX/77 (In), IV/69, Chagha Sarai IV/69 (JV), Sarobi III/78 (TE), Wama (E) IV/48 (KP).

P. l. leucotis (Gould). Resident of the south. Recorded from Farah (S) II/76 (RP), II-VI/49 (KP), X/37 (WK) Kandahar common XII/1880, II/1881 (CS), II/49 (KP), X/37 (WK), Herat VII/49 (KP).

2. Hypsipetes madagascariensis (Statius Müller) black bulbul

(Syn. Microscelis psaroides). H. m. psaroides (Vigors). Probably summer visitor to Kunar Valley (E) and Safed Koh (HE). Recorded from Chagai Sarai (E) III/1880 (WG), IV/69 (JV), Kamu, Kamdesh (E) VI/66, IX/69 (AP).

## Family Bombycillidae

1. Bombycilla garrulus (Linnaeus)

waxwing

B. g. centralasiae Pokakov. Probably a passage migrant (HE).

2. Hypocolius ampelinus Bonaparte

grey hypocolius

Passage migrant. Recorded from Kandahar X/37 (WK), V/74 (FR), Faizabad (SW) IV/49, Lashkargah (S) V/49 (KP), V/74, VII/73 (FR).

## Family Cinclidae

1. Cinclus cinclus (Linnaeus)

dipper

C. c. leucogaster Bonaparte. Western, central and eastern Afghanistan (HE). Recorded from Obek (W) VII/49, Hazarajat VI/49, Bamian IX-XI/49 (KP), IV/37, Ghorband IV/37 (RM), Paghman V-VII/79 (JS), Salang (C) VII/70 (SM), VII/74, Doab VII/74 (FR), Hadjijak Pass VI/77 (P&C), Jam V/77 (RP), Big and Small Pamirs VII-VIII/71 (No), IX/75, VII/72 (JN), Sufak (C) IX/39, Mak (C), Gharchi (C), Burchao Pass (C) X/37 (WK).

2. Cinclus pallasii Temminck

brown dipper

C. p. tenuirostris Bonaparte. Resident in central and northeastern Afghanistan. Recorded from Munjar Pass VII/37, Paghman VI/37, Baltistan Valley VII/36, Kargasi Pass (NE), Sanglech Valley (NE) VIII/37 (WK), VII/48, Kokcha Valley (NE) VII/49 (KP), Big Pamir VII-VIII/71 (No), Kamdesh (E) br IV/69 (JV), Pech-Parun Valley II-VI/48 (KP), Salang (C) VII/70 (SM), 73-75 (FR), Panchir (C) V/73 (FR), Iskar (N), DehTang (C) Ghorband (C) X/1884 (CY), IV/37, Shibar (C) juv. V/37, Paghman IV/37 (RM), Khawak Chapchi VII/33 (Ma).

## Family Troglodytidae

1. Troglodytes troglodytes (Linnaeus)

wren

T. t. neglectus Brooks. Resident of Nuristan, collected from Gusalek (E) II, III, V/48 (KP). T. t. magrathi (Whitehead). Resident of Safed Koh (HE). Recorded from Sirotai (E) VI/37 (WK). T. t. tianschanicus Sharpe. Resident of northern and northeastern Afghanistan. Recorded from Ajar Valley III/79 (JS), N Salang X-III/73-75 (FR), br V/70 (SM), Wakhan VIII/71 (No), Paghman IV/37 (RM), Chahiltan XII/33, Logar I/35 (Ma), Kabul, Kunduz X-III/73-75 (FR), Chahar Shambai (N) I, II/1885 (SY), Maimanah, Safed Sang, Sufak (N) Burchao (C), Balkh, Pul-i-Khumri (N) IX-XI/39 (WK).

## Family Prunellidae

1. Prunella strophciata (Blyth)

rufous-breasted accentor

P. s. jerdoni (Brooks). Breeding bird of eastern Afghanistan. Recorded from Sirotai Pass VI/37 (WK), Stieve (E) VI/48 (KP), Safed Koh (E) (Vaurie).

2. Prunella fulvescens (Severtzov)

brown accentor

P. f. fulvescens. Breeding bird and probably resident of the northern Hindu Kush and Badakhshan (HE). Recorded from Weran Valley (NE) VII/48 (KP), Big and Small Pamir common VIII/65, VII-VIII/72 (JN), VII-VIII/71 (No), Western Nuristan VII-IX/77 (RP), Paghman, Ghorband IV/37 (RM), Salang (C) IX/66 (JN), VII/70 (SM) I-VII/73-75 (FR), Bamian IX, X/49 (KP), Sanglech (NE) br, Munjan Pass VI, VII/37, Sabz, Safed Sang, Burchao (C) VIII-X/39 (WK).

3. Prunella atrogularis (Brandt)

black-throated accentor

P. a. atrogularis. Winter visitor of southern Afghanistan (HE). Recorded from Farah Rud Estuary (SW) II/49 (KP), Maimanah, Andkhui, Balkh XI/37, Girishk X/37, Pul-i-Khumri XI/39, Balkh X/39 (WK). P. a. huttoni (Horsfield and Moore). Winter visitor of northern and eastern Afghanistan (HE). Recorded from Kabul XI-XII/79, I-III/80 (JS), Kote Hashmat Khan II/65 (JN), Gusalek (E) III/48 (KP), Big Pamir IX/65 (JN), Kandahar X/1879 (St.J), Balkh XI/37, Jalalabad XII/37, Pul-i-Khumri XI/39 (WK). (FR) gives records throughout Afghanistan between XII and III/73-75 and Salang V/75.

4. Prunella himalayana (Blyth)

Himalayan accentor

Breeding bird of the northern Hindu Kush and Badakhshan (HE). Recorded from Salang IX/66 (JN), VII/70 (SM), Sarobi III/78 (TE), Darwaz (NE) VII/72, Wakhan, Big Pamir VIII/72, Big, Small Pamir VII-VIII/71 (No), Murjan (NE) VII/37 (WK).

5. Prunella collaris (Scopoli) Alpine accentor

P. c. rufilata (Severtzov). Breeding bird of northeastern Afghanistan and Safed Koh, passage migrant of northwestern Afghanistan (HE). Recorded from N Salang VII/70 (SM), VI/74, S Salang I/75, Kabul Gorge XI-III/73-75 (FR), II/77 (TE), Murghab XII/1884 (JA), Bulola (E) XII/37 (WK), Pech-Parun Valley (E), II, VI/40 (KP).

Family Turdidae

1. Cercotrichas galactotes (Temminck) grey-backed warbler

C. g. familiaris (Ménétries). Summer visitor and passage migrant. Recorded from Faizabad (SW), Farah IV/49, Obeh (W), Qala Nau (NW), Murghab (NW) VII/49, Bamian IX/49 (KP), Adreskan (W) V/69 (JV), Kunduz V/73, 75, Lashkargah V/74 (FR), Danaghor (N) V/37 (RM), Timpul IV/1885, Kambao V/1885 (JA), Kilawali IV/1885, Darbund-i-Kil-Rekhta (N) V/1885 (CY), Kandahar 1880 (St.J).

2. Erithacus rubecula (Linnaeus) robin

E. r. tataricus Grote or E. r. hyrcanus Blanford. Easternmost distribution is Iran (Vaurie). The only record for Afghanistan is from Maywand (SE) III/72 (ES).

3. Lucinia megarhynchos Brehm nightingale

L. m. africana Fischer and Reichenow. Probably summer visitor of northwestern Afghanistan (HE). L. m. hafizi Severtzov. Summer visitor of northern Afghanistan and passage migrant (KP). Recorded from Faizabad (NE) VII/48, Panjao (C) VI/49 (KP), Bande Amir VII/70 (SM), Baharak (NE) IV/77 (P&C), Obeh (W) VII/49 (KP), V/77, Jam V/77 (RP), Danaghor (N) br V/37 (RM).

4. Lucinia svecica (Linnaeus) bluethroat

L. s. abbotti (Richmond). Breeding bird of Badakhshan and central Afghanistan. Recorded from Kabul II/33 (Ma), Tilli (NE) VII/48, Panjao (C) br VI/49 (KP), Dashte Nawar br VI/65 (JN), VI/77 (TE). Four more subspecies L. s. svecica, L. s. pallidogularis Zarudnyi, L. s. kobdensis (Tugarinov) and L. s. saturator (Sushkin) are recorded as common passage migrants (HE). Project records: Kabul IX-XI/79, III/80, Ab-i-Estada IV/79 (JS), western Nuristan VIII-IX/77 (RP).

5. Lucinia pectoralis (Gould) Himalayan ruby throat

L. P. ballioni (Severtzov). Breeding in northeastern Afghanistan (HE). One record from Stiewe (E) VI/48 (KP).

6. Lucinia brunnea Hodgson Indian blue robin

L. b. brunnea. Recorded from Stiewe and Pashki (E) IV-VI/48 (KP) and Bande Amir VIII/70 (SM).

7. Tarsiger cyanurus (Pallas) red-flanked blue-tail

T. c. rufilatus (Hodgson). Resident and breeding in eastern Afghanistan, up to 3 000 m. Recorded from Safed Koh (HE).

Tarsiger hyperythrus (Blyth) rufous-breasted bush robin

Presumably recorded from Bande Amir VIII/70 (SM). Vaurie gives the distribution Himalayas from Garhwal (Pakistan) eastwards.



8. *Irania gutturalis* (Guérin-Méneville)      white-throated robin  
Summer visitor, breeding bird of northern mountainous Afghanistan, south to Kabul and passage migrant (HE). Recorded from Kabul V/34 (Ma), Bamian IV/37 (RM), Obek (W) VII/49 (KP), Qala-i-Nau (W) V/77, Jam V/77 (RP).
9. *Phoenicurus erythronotus* (Eversmann)      Eversmann's redstart  
*P. e. erythronotus*. Common passage migrant throughout Afghanistan between the end of October and March/April. Breeding bird of the Pamirs and Wakhan. Project records Kabul XI/79, III/80, Qargah XII/79 Ajar Valley III/79 (JS). Summer records from breeding area: Qala-i-Panja (NE) IV/1874 (Bi), IX/65 (JN).
10. *Phoenicurus caeruleocephalus* Vigors      blue-headed redstart  
Breeding bird of eastern Afghanistan and passage migrant. Recorded from the Pech-Parun Valley (E) br III-VI/48 (KP), Kamdesh (E) IV/69 (JV), Byankhel (E) br V/1879 (WR), Kabul X/79 (JS), N Salang VIII/70 (SM), VII/74 br, III, V/75 (FR), Darunta II/77 (TE).
11. *Phoenicurus ochruros* (Gmelin)      black redstart  
*P. o. phoenicuroides* (Horsfield and Moore). Common breeding bird of mountainous Afghanistan, passage migrant and winter visitor throughout Afghanistan. Project records from Kabul IX-XI/79 (JS).
12. *Phoenicurus phoenicurus* (Linnaeus)      redstart  
*P. p. phoenicurus* and *P. p. samanensis* (Hablizl). Passage migrants. Recorded from Kabul IV/80 (JS), Yawkalang (C) V/72 (ES), Ardreshkan V/69 (JV), Mazar-i-Sharif IV/74 (FR).
13. *Phoenicurus frontalis* (Vigors)      blue fronted redstart  
Only recorded from Pashki (E) V/48 (KP). Main distribution from Kashmir (Pakistan) eastwards (Vaurie).
14. *Phoenicurus erythrogaster* (Güldenstädt)      Güldenstädt's redstart  
*P. e. grandis* (Gould). Passage migrant (KP), breed in NE Afghanistan and the Pamirs (Vaurie). Recorded from Panjah (NE) common IV/1874 (Stolizka), Pamir common IX/65, VIII/72 (JN), Salang (C) VIII/65 (JN), VI/77 (P&C), br VII/70 (SM), Bamian X/49 (KP), and as winter visitor between XI-III/73-74 from Salang, Douchy (C), Kunduz, Sarobi, Kabul, Samangan (N) and Mazar-i-Sharif (FR).
15. *Rhyacornis fuliginosus* (Vigors)      plumbeous redstart  
*R. f. fuliginosus*. Resident of northeastern and eastern mountainous Afghanistan. Recorded from Sarobi (E) vi/37 (WK), Pech-Parun (E) br II-VI/48 (KP), Chagha Sarai, Bandikot, Kamu br IV/69 (JV), Sarobi X-III/73-75, Pansjir IV/75, V/73, 75, Doab VII/74 (FR), Wakhan VII/71 (No), Keshem (NE) VI/77 (P&C), N Salang VII/70 (SM).
16. *Saxicola macrorhyncha* (Stolizka)      Stolizka's whinchat  
Very local resident of southern Afghanistan, recorded from Kandahar IV/1881 and Dubai IV/1881 (CS).
17. *Saxicola rubetra* (Linnaeus)      whinchat  
Recorded from Kaymard, Sayghan (C) IV-V/75 (ES), S Salang VI/73 (FR). Vaurie gives as easternmost record Iran.

18. Saxicola torquata (Linnaeus) stonechat  
S. t. maura (Pallas). Breeding bird of Afghanistan except in the southwestern part, common passage migrant and winter visitor. Recorded throughout Afghanistan. Project records from Kabul IX/79, III-IV/80, Ab-i-Estada IV/79 (JS).
19. Saxicola caprata (Linnaeus) pied bush chat  
S. c. rossorum (Hartert). Common summer visitor, breeding on lower altitudes, also passage migrant and winter visitor (KP). Recorded throughout the country.
20. Oenanthe isabellina (Temminck) isabelline wheatear  
Common resident and in the north summer visitor, breeding in desert areas. Also a passage migrant. Recorded throughout the country. Project records Ajar Valley III/79, Ab-i-Estada I, IV, V/79 (JS).
21. Oenanthe oenanthe (Linnaeus) common wheatear  
O. o. oenanthe. Summer visitor and passage migrant. Recorded throughout the country and common in less dry habitats.
22. Oenanthe pleschanka (Lépechin) pied wheatear  
O. p. pleschanka. Summer visitor and passage migrant. Breeding in western, central and eastern Afghanistan. Recorded throughout the country between February and October. Project records from Kabul III/80 (JS), Qala-i-Nau deserts V/77, Jam V/77 (RP).
23. Oenanthe deserti (Temminck) desert chat  
O. d. atrogularis (Blyth). Passage migrant and winter visitor.  
O. d. oreophila (Oberholser). Summer visitor, passage migrant and winter visitor, breeding at high altitudes in the central Hindu Kush and the Pamirs (JN). Recorded throughout the country. Project records from Hamun-i-Puzak III/78 (RP).
24. Oenanthe finschii (Heuglin) Finsch's wheatear  
O. f. barnesi (Oates). Summer visitor to northern Afghanistan. Widespread resident of central and winter visitor of southern Afghanistan. Also passage migrant. Breeding recorded from Kabul VII/65 (JN), Atin Jalao (NE), most easterly known breeding place VIII/72 (VV), Haibak (N), Doshi (C), Doab (C), Kunduz (N) IV, V/37 (RM). The only Nuristan record is from VIII-IX/77 (RP).
25. Oenanthe xanthopyrma (Hemprich and Ehrenberg) red-tailed chat  
O. x. chrysopygia (DeFilippi). Common breeding bird of the central and eastern mountains, south to Safed Koh; passage migrant. Winter visitor to the low altitudes such as Sarobi, Kandahar and Jalalabad (RR).
26. Oenanthe picata (Blyth) eastern pied wheatear  
Common summer visitor and passage migrant, winter visitor to the lower Kabul Valley. Three colour phases are distinguished which overlap each other in distribution area, and with many intermediates:  
O. p. capistrata more concentrated in central and northern Afghanistan;  
O. p. opistoleuca more concentrated in eastern and northeastern Afghanistan, predominant in Kabul, not found in the winter;  
O. p. picata least common of the forms, more in the south, not found in the Salang (KP, JV, FR). Project records from Kole Hashmat Khan VIII-IX/79 (JS), Hamun-i-Puzak III/78, Qala-i-Nau Herat V/77 (RP).

- Oenanthe monacha (Temminck) hooded wheatear
- Probably southern Afghanistan (HE). An unsubstantiated record from Herat-Farsi V/77 (RP).
27. Oenanthe alboniger (Hume) Hume's chat
- Probably resident of southern Afghanistan (HE). Recorded from Kolehmat Khan IX/79 (JS), Kabul Valley IV/77 (TE), Herat-Qala-i-Nau V/77, Chakcharan-Jam V/77 (RP), Qala-i-Bost IX/72 (VV), Delaram, Farah, Adreshkan IV, V/69 (JV) Kandahar, Sarobi, Jalalabad XI-III/73-75 (FR), Zagu (W) XI/1885 (JA), Kandahar, Delaram X/37, Farah XI/37, Takhtipul XI/39 (WK).
28. Chaimarrornis leucocephalus (Vigors) white-capped redstart
- Resident of central and eastern Afghanistan, south to Safed Koh (HE). Recorded from Pech-Parun Valley (E) II-VI/48 (KP), Chagai Sarai (E) III/1840 (WG), br IV/69, Barikot (E) IV/69, Sarobi IV/69 (JV), X-III/73-75 (FR), II/48 (KP), Kabul Gorge II/77 (TE), Salang (C), Pansjir br 73-75 (FR), Ajar (C) III/79 (JS), Bamian IX/49 (KP), Salang N VII/70, Khawak Pass VII/33 (Ma), Sarghaz (NE) br VII-VIII/71 (No).
29. Saxicoloides fulicata (Linnaeus) Indian robin
- S. f. cambaiensis (Latham). Only once recorded by Griffith, 1840.
30. Monticola saxatilis (Linnaeus) rock thrush
- Summer visitor and passage migrant (KP). Common breeding bird of the Hindu Kush (JN). Recorded from Koh-i-Baba, Firozkoh, Guldara (C) VIII/72 (VV), Adreshkan (W) V/69 (JV), Shibar (C) br V/37 (RM), VII/33 (Ma), VI/49, Panjao (C) VI/49 (KP), Paghman br, Unai Pass (C) br, Ghorband br IV, V/37 (RM), Sar-i-Chasma (C) VI/34 (Ma), Pansjir, Bamian br 73-75, Samangan (N) VII/73 (FR), NW Afghanistan III, IV/1885 (JA), Bande Amir VIII/70 (SM), Salang VI/77 (P&C), Dashte Nawar (E) V/76, 77 (TE), Qala-i-Nau (W) V/77, Jam V/77 (RP), Darwaz VII/72 (JN).
31. Monticola cinclorhyncha (Vigors) blue-headed rock thrush
- Summer visitor of mountainous eastern Afghanistan, including Safed Koh. Recorded from the Pech-Parun Valley (E) IV-V/72 (KP), Hariab Valley (E) br V, VI/1879 (WR), Farsi (C) VIII/72 (VV).
32. Monticola solitarius Linnaeus blue rock thrush
- M. s. longirostris (Blyth). Summer visitor to western and central Afghanistan, and in the last century recorded as winter visitor. Recorded breeding from Kabul, Ghorband, Akrobat, Doab, Haibak, Paghman IV, V/37 (RM) and from Kabul V/49, Obek (W) VII/49, Shibar (C) IX/49, Bala Murghab (NW) VII/49, Waibak (N) VIII/49 (KP).
- M. s. pandoo Sykes. Summer visitor to Nuristan. Recorded as scarce breeding bird of the Pech-Parun Valley br IV-VI/48 (KP). Other records throughout the country except the Pamirs.
33. Myiophonus caeruleus (Scopoli) blue whistling thrush
- M. c. turcestanicus Zarudnyi. Resident of central, eastern and north-eastern Afghanistan in rocky places and always near water. Winter visitor to the south. Recorded throughout the country.
34. Turdus unicolor Tickell Tickell's thrush
- Recorded from Chitral (Pakistan) (HE). One record from Sarobi (E) II/72 (ES).

Maiwand SE Afghanistan	Par-i-Kham Wakhan
Mak central Afghanistan	Paropamisus NW mountain spur
Malik Dorkhand Mts S. Afghanistan	Parun 35°28' 70°55'
Mangalpur 34°06' 69°51'	Parwan
Marmakhel 34°20' 70°00'	Pashat = Pushut 34°42' 71°03'
Maruchaq 35°48' 63°08'	Pashki 35°25' 70°56'
Maruf SW Afghanistan	Payopari Char E. Nuristan
Matun = Khost	Pech R tributary Kunar R
Mazar-i-Sharif 36°43' 67°05'	Peiwar Kotal 33°58' 69°51'
Meterlam Laghman	Pirzada 31°37' 65°05'
Miana Bam 35°10' 63°33'	Pol-i-Shamri = Puli Khumri 35°56' 68°44'
Minla E. Afghanistan	Puistagoli 35°25' 70°55'
Mukur 32°52' 67°42'	Puzak Gish Mt Doshakh
Murghab R NW Afghanistan	Qachqar Cave Jalalabad Valley near Murgul
Murghul 34°35' 70°48'	
Musa Qala 32°23' 69°49'	Qala Bist = Qala Bost 31°28' 64°21'
Nadali Helmand basin	Qala-i-Jadid = Spin Baldak
Naghlu 34°42' 69°45'	Qala Kang 31°07' 61°52'
Nangahar province E. Afghanistan	Qala-i-Nau 34°58' 63°04'
Nao = Nau 35°54' 70°44'	Qala Safed Quanaï 34°30' 69°00'
Nasratabad SW border	Qala-i-Shahi Nangahar
Neshtkaur 37°00' 73°18'	Qala Vali 35°47' 63°44'
Nijrao 34°40' 69°45'	Qal-i-Charak central Afghanistan
Nimroz Seistan	Qalat = Kalat 32°07' 66°54'
Nuristan area N. of Jalalabad	Qarabagh = Karabagh
Obeh 34°23' 63°06'	Qoul Kharideh 75 km W of Kabul
Oruzgan central Afghanistan	Rah Kol 34°50' 68°00'
Otipore E. Afghanistan	Registan S. Afghanistan
Oxus R = Amu Darya R	Robate Khusk R = Khush Rud R 32°40' 62°16'
Padda Sultan 31°05' 62°05'	
Paghman 34°33' 68°55'	Rost Safed Koh
Paktia province 33°30' 70°00'	Rudbar 30°08' 62°29'
Pamir E. part of Badakhshan	Sabz Pass 34°53' 61°37'
Panjsjir R 35°25' 69°40'	Sabzak Pass 35°30' 67°35'
Panja = Qala Panjah 36°59' 72°40'	Safed Koh 34°15' 70°00'
Panjah R 37°00' 72°40'	Safed Sang 35°33' 65°17'
Panjao 34°21' 67°00'	Sahib Zada S. of Kandahar
Parendah R tributary Panjsjir R	Salang Pass 36°24' 69°08'

35. Turdus merula Linnaeus blackbird  
T. m. intermedius (Richmond). Rare summer visitor to northwestern Afghanistan (KP) and winter visitor. Recorded from Obeh (W), Kwaja Chist (W) VII/49 (KP), Ajar Valley (C) III/79 (JS), X/78 (Wassey), Khusan (W), Murghab (NW) XI, XII/1885 (JA), Chahar Shamba (N) II/1885 (CY), Farakar br VII/37, Maimanah, Murghab, Balkh XI-XII/37, Kandahar VII/37 (WK) XII/1880 (CS), XI-IV/73-75, Kabul, Kunduz, Samangan, Mazar-i-Sharif XI-IV/73-75 (FR).
36. Turdus rubrocanus Hodgson grey-headed thrush  
T. r. rubrocanus. Breeding bird of Safed Koh (Vaurie). Recorded from Pech River (E) VI/66 (LT).
37. Turdus ruficollis Pallas dark-throated thrush  
T. r. ruficollis. Rare passage migrant and winter visitor.  
T. r. atrogularis Jarocki. Passage migrant and winter visitor. Common in some years. Recorded from Kabul XI/33 (Ma), IV/37 (RM), X/79, II-III/80 (JS), Kabul Valley II/77 (TE), Qargah III/66 (JN), Qala-i-Pandja (NE) IX/65 (JN), Wama (E) IV/48, Bamian IX/49 (KP), Ajar Valley III/79 (JS), Chahiltan XII/33, IX/34 (Ma), Chahar Shamba I, II, IV/1885 (CY), Kushk-Rud XI/1884, Murghab (NW), I/1885 (JA), between XI, IV/73-75 winter visitor in Salang, Kabul, Sarobi, Kunduz, Samangan, Ghazni, Lashkargah, Mazar-i-Sharif (FR).
38. Turdus pilaris Linnaeus field fare  
 Winter visitor. One record from Kabul II/74 (ES).
39. Turdus iliacus Linnaeus redwing  
T. i. iliacus. Winter visitor. Recorded from Salang(N) XII/72, I/73 and Lashkargah (S) XI/73 (FR).
40. Turdus viscivorus Linnaeus mistle thrush  
T. v. bonapartei Cabanis. Scarce breeding bird, also winter visitor. Recorded from Kamdesh (E) IV/69 (JV), Pech-Parun Valley (E) br IV-VI/48, Obeh (W), Sauzak Valley (W) VII/49 (KP), Bande Amir VIII/70 (SM), Khinjan Pass (C) VII/33 (Ma), Safed Koh br V/1879 (WR), Salang V/75, VII/74, XI-II/73-75, Kandahar, Lashkargah, Douchy (C) Mazar-i-Sharif XI-II/73-75 (FR).
41. Enicurus scouleri Vigors little forktail  
 Scarce resident of northeastern Afghanistan. Recorded from Pech-Parun Valley (Nuristan) II-VII/48, Kokcha Valley: Kachari (NE) VII/48 (KP), N. Salang (C) VII/70 (SM), XII/73, Panchir (C) V/75 (FR).
42. Enicurus maculatus Vigors spotted forktail  
E. m. maculatus. Scarce resident of Nuristan: Pech-Parun Valley (E) III-V/48 (KP).

## Family Sylviidae

1. Cettia cetti (Temminck) Cetti's warbler  
C. c. albiventris Severtzov. Summer visitor, breeding north of the Hindu Kush (Vaurie). Recorded from Panjao (C) VI/49 and Obeh (C) VII/49 to the south (KP). Also from Ajar Valley VI/76 (TE), Darunta (E) IV/69 (JV), Kandahar I/1881 (CS) and Shahar Shamba II/1885 (CY).

2. Cisticola juncides (Rafinesque) : fan-tailed warbler  
C. j. cursitans (Franklin). Recorded breeding in eastern Afghanistan (Vaurie).
3. Prinia gracilis (Lichtenstein) graceful prinia  
P. g. lepida Blyth. Resident, breed south of the Hindu Kush. Records from Farah II, IV, V/49 (KP), Jalalabad IX/77 (In), Samuli (SE) III/1896 (FM), Kuhak (SW) X/04 (JC), Lashkargah III, V, XI/74, II/75, Kandahar XI/74 (FR).
4. Prinia inornata Sykes plain-coloured prinia  
P. i. ?terricolor (Hume). A single record from a marsh near Jalalabad IX/77 (In). Occurs outside Afghanistan in the plains of Pakistan, west to Peshawar.
5. Prinia criniger (Hodgson) brown hill warbler  
P. c. striatula (Hume). Recorded from Gusalek (E) III/48 (KP), Sarobi II/74, Jalalabad XI/74, I, VI/75, Doab (N) VII/74 (FR).
6. Scotocerca inquieta (Cretzschmar) scrub warbler  
S. i. platyura Severtzov. Breeds in Paropamisus and Afghan Turkestan, recorded from Kabul IV/37, Doab (N) IV/37, Haibak br V/37 (RM), Obek (C) VII/49 (KP), Samangan II/74, Mazar-i-Sharif XI/74 (FR).  
S. i. striata (Brooks) breeds in southern Afghanistan (Vaurie).
7. Locustella certhiola (Pallas) Pallas's grasshopper warbler  
L. c. rubescens Blyth and L. c. centralasiae Sushkin. Occasional visitors (HE). Both subspecies only recorded from Bamian IV/37 (RM).
8. Locustella naevia (Boddaert) grasshopper warbler  
L. n. straminea Seeböhm. Passage migrant throughout, breeds in the north from Herat to Kunduz, winters in the south (HE). Recorded from Bamian IV/37 (RM), IX/49 (KP), VIII/70 (SM) and only one record of L. n. mongolica Sushkin from Wama, Nuristan V/48 (KP).
9. Acrocephalus melanopogon (Temminck) moustached warbler  
A. m. mimica Madarasz. Passage migrant, probably breeding in the north, Danoghoi V/37 (RM). Recorded from Jalalabad IX/77 (In), Bamian VIII (SM), Kabul III/80 (JS), Kandahar IV/1879 (St.J), Lashkargah XI/73, II/75, Baghlan II/75 (FR).
10. Acrocephalus concinens (Swinhoe) blunt-winged reed warbler  
A. c. harringtoni Witherby. Summer visitor, recorded from the Danaghoi Plains V/37 (RM).
11. Acrocephalus agricola (Jerdon) paddy field warbler  
A. a. brevipennis (Severtzov). Passage migrant, breeds in the NW (HE). Recorded from Jalalabad IX/77 (In), Bande Amir VIII, IX/69, Kole Hashmat Khan IV, V/64-66 (JN), Kabul VIII-X/79 (JS), Faizabad IV/49, Bamian IX, X/49 (KP), Logar VI/34 (Ma), Ghorband (N), Douchy (N), Danaghoi (N) IV, V/37 (RM).
12. Acrocephalus dumetorum Blyth Blyth's reed warbler  
Common passage migrant and summer visitor. Breeds north of Hindu Kush and probably also in the south (HE). Recorded from Bande Amir VIII, IX/69 (SM), Bamian IX/49 (KP), Ajar Valley V, VII/76-77 (TE),

- Mazar-i-Sharif VIII/49 (KP), Kabul VIII-X/79 (JS), Kunduz, Ghorband (N) br V/37 (RM), Kandahar IV/69 (JV), Byan Khel (E) V/1879 (WR), Pashki (E) V/48, Gardez V/49, Obeh VII/49 (KP).
13. Acrocephalus scirpaceus (Hermann) reed warbler  
A. s. fuscus (Hemprich and Ehrenberg). Recorded from Herat VII/49 (KP), Ajar Valley V/77 (TE) and Kole Hashmat Khan br V/67 (AP).
  14. Acrocephalus stentoreus (Hemprich and Ehrenberg) clamorous reed warbler  
A. c. brunnescens (Jerdon). Common passage migrant and summer visitor. Breeds in suitable habitat throughout the country. Project records from Kole Hashmat Khan V-VIII/79 (JS).
  15. Acrocephalus arundinaceus (Linnaeus) great reed warbler  
A. a. zarudnyi Hartert. A single record from Tirpul (NE) IV/1885 (JA).
  16. Hippolais pallida (Hemprich and Ehrenberg) olivaceous warbler  
H. p. elaeica (Lindermeyer). Summer visitor, breeding in the north (HE). Recorded from Haibak br V/37 (RM), Maimanah (Jalaïar) VI/1885 (CY), Shindand, Adreshkan (W) V/69 (JV).
  17. Hippolais caligata (Lichtenstein) booted warbler  
H. c. caligata. Rare migrant. H. c. rama (Sykes). Common summer visitor, breeding throughout (HE). Recorded from Bamian IX/49 (KP), Bande Amir VIII, IX/69 (SM), Douchy (N) V/37 (RM), Kila Wali (N), Darband-i-Kil Rekhta (N) IV, V/1885 (CY), Gungazai (SW) V/1881 (CS), Herat, Hasrate Baba (W) V/77 (RP), VII/49 (KP), Kandahar VI/1880 (CS), IV/69 (JV), Farah IV/49, Lashkargah (S), V/49, Ab-i-Estada V/49, Mukur (E) V/49, Tirpul (W), Obeh (W), Khwaja Chisht (W), Murghab (W), VII/49 (KP), Mazar-i-Sharif, Haibak (N) VII/49 (KP), Kabul IV, V/64-66 (JN), IX/79 (JS), V, VI/75 (FR), VIII/33 (Ma, ssp caligata).
  18. Hippolais languida (Hemprich and Ehrenberg) Upcher's warbler  
 Passage migrant and summer visitor, probably breeding (KP). Recorded from Paigah Kotal VIII/49 (KP), Ajar Valley VI/76 (TE), Ab-i-Estada, Dashte Nawar V/76 (TE), Kabul IV, V/64-66 (JN), Shar-i-Gholghola (C) VIII/72, Jam VIII/72 (VV), Kambao (NW) V/1885 (JA).
  19. Sylvia mystacea Ménétries Ménétries' warbler  
 Passage migrant. Recorded from the estuary of the Farah Rud in Seistan III/49 (KP), Kuhak (SW) III/05 (JC), Adreshkan (W) V/69 (JV), Gulran (NW) III/1885 (JA), Kila Wali (NW) IV/1885, Jalaïar (N) VI/1885 (CY).
  20. Sylvia nana (Hemprich and Ehrenberg) desert warbler  
S. n. nana. Passage migrant, probably breeding in SW (HE). Recorded from Bagrabad, Faizabad and Farah Rud Estuary III-IV/49, Bamian IX, X/49 (KP), Gulran (NW) III/1885, Tirpul (NW) IV/1885 (JA).
  21. Sylvia hortensis (Gmelin) orphean warbler  
S. h. jerdoni Blyth. Passage migrant and summer visitor. Probably breeding in NW (KP). Recorded from Obeh (C) VII/49 (KP), Bande Amir VIII, IX/69 (SM), Kabul VIII/79 (JS), Kambao (NW), Nikal-Shani (NW) V/1885 (JA), Ghorband (C), Bamian IV/37 (RM).

22. Sylvia nisoria (Bechstein) barred warbler  
S. n. merzbacheri Schalow. Passage migrant, breed in Badakhshan (HE).  
 Recorded from Pashki (E) V/49 (KP), Bande Amir VIII, IX/69 (SM),  
 Wakhan IX/69 (JN), Danaghor (N) V/37 (RM), Kumanibhest (NW) V/1885  
 (JA), Adreshkan V/69 (JV).
23. Sylvia curruca (Linnaeus) lesser whitethroat  
 Very common passage migrant. Also summer visitor and breeding in  
 suitable habitat throughout. Three pronounced subspecies recognized  
 of which S. c. minula Hume is the commonest passage migrant in the  
 Kabul area. Vaurie mentions possible breeding in the northwest,  
 Seistan and Turkestan. Project records Kabul VIII-XI/79 IV/80 (JS),  
S. c. althaea Hume is a widespread breeding species and S. c. blythi  
 Ticehurst and Whistler is commoner in Seistan (IV/49 (KP)).
24. Sylvia communis Latham common whitethroat  
S. c. icterops Menétries. Passage migrant, recorded breeding from  
 Darwaz (N) VII/72 and Hindu Kush VI/65 (JN), and migrating from Bande  
 Amir VIII-IX/70 (SM), Bamian IX/49 (KP), Kabul V/77 (TE), VIII, IX/79  
 (JS), Adreshkan (W) V/69 (JV).
25. Phylloscopus occipitalis (Blyth) large crowned leaf warbler  
P. o. occipitalis. Summer visitor and breeding in Nuristan and Safed  
 Koh. Recorded from Wama and Pashki (E) br IV-VII/48 (KP), N Salang  
 VII/70 (SM), Safed Koh br VI/1879 (WR), Chaga Sarai, Kamdesh (E)  
 IV/69 (JV), Kail (NE), Daulatshah (NE), Gumanara (NE) VI/37, Sanglech  
 (NE), Iskarzir (NE) VII/37 (WK).
26. Phylloscopus tytleri Brooks Tytler's willow warbler  
 Breeding in the east. Recorded from Pashki (E) br V, VI/48 (KP),  
 N Salang br VII/70 (SM) and Barikot-Kamu (E) br IV/69 (JV).
27. Phylloscopus nitidus Blyth bright green warbler  
 Passage migrant, breed in the northwest (HE). Recorded from Dashte  
 Nawar V/76 (TE), Bande Amir VIII/70, N Salang VII/70 (SM), Akrobat  
 (N) IV/37, Douchy (N) V/37 (RM), Kabul X/79 (JS), Kandahar IV, X/1879  
 (St.J).
28. Phylloscopus trochiloides Sundevall greenish warbler  
P. t. ludlowi Whistler. Summer visitor in Nuristan and Badakhshan.  
 Recorded from Wama and Pashki (E) IV-VI/48 (KP), Small Pamir VIII/72  
 and Wakhan (JN).  
P. t. viridanus Blyth. Passage migrant, recorded from Pashki (E)  
 VII/48 (KP), Big Pamir VIII/72 (JN), Kabul IX/79 (JS), IV/34 (Ma),  
 Bande Amir VIII, IX/70 (SM). The greenish warbler is also recorded  
 from Wakhan VII/71 (No), Ab-i-Estada V/76 (TE), Ghorband (C) IV/34  
 (Ma).
29. Phylloscopus magnirostris Blyth large-billed leaf warbler  
 Passage migrant, breeding in Safed Koh (HE). Recorded from Kabul  
 IX/79, IV/80 (JS).
30. Phylloscopus proregulus (Pallas) yellow-rumped leaf warbler  
P. p. simlaensis Ticehurst. Breeding in Safed Koh (HE).
31. Phylloscopus subviridis (Brooke) Brooke's willow warbler  
 Breed in eastern Afghanistan: Wama and Pashki (E) IV, VI/48 (KP),  
 Safed Koh common br IV, V/79 (WR).



32. Phylloscopus inornatus Blyth inornate willow warbler  
P. i. humei (Brooks). Passage migrant, breeding in Badakhshan and E. Hindu Kush (Charikar), winter visitor in the east and south (HE). Recorded from Tilli (NE) VII/48, Bamian IX-X/49, Wama and Pashki (NE) IV-V/48 (KP), Bande Amir VIII-IX/70 (SM), Wakhan VII/71 (No), Panjah (NE) IV/1874 (Bi), Dara-e-Shaur (Big Pamir) VIII/72 (JN), Jalalabad IX/77 (In), Kabul IX-X/79 (JS).
33. Phylloscopus schwarzi (Radde) Radde's willow warbler  
 The only record is from Danaghor (N) V/37 (RM).
34. Phylloscopus griseolus Blyth olivaceous willow warbler  
 Breed in eastern and northeastern Afghanistan, passage migrant (HE). Recorded from the Pech-Parun Valleys (E) br IV-VI/48, Miyan Deh (NE) VII/48 (KP), Byan Khel (E) br VI/1879 (WR), Ghorband br, Bamian IV/37 (RM), Bande Amir VIII/70, N Salang VII/70 (SM), IV-VIII/72, Paghman IV-VIII/72, Darwaz VII/72 (JN).
35. Phylloscopus neglectus Hume plain brown willow warbler  
 Breeding in all the mountains, passage migrant (HE). Recorded from Faizabad (SW) IV/49, Obeh (W) VII/49, Sauzak Kotal (W) VII/49 (KP), N Salang VII/70 (SM), ?Kunduz IV/78, Dashte Nawar V/77 (TE), Kandahar 1879 (St.J), II/69 (JV).
36. Phylloscopus sindianus Brooks mountain chiffchaff  
 Passage migrant. Recorded from Kabul IV/80 (JS), Ghorband (N) ? br IV, V/37 (RM), Helmand (SW) (Ticehurst).
37. Phylloscopus collybita (Vieillot) chiffchaff  
P. c. tristis Blyth. Common passage migrant. Recorded from Wakhan Valley (NE) common VII-VIII/69 (No), Sardeh IV/78, Ajar Valley V/77 (TE), Gusalek (E) III/48, Farah Rud (Seistan) III/49, Faizabad (SW) IV/49, Farah IV/49, Bamian IX-X/49 (KP), Kabul III-IV/64-66 common, XI/64-66 less common (JN), common IX-XII/79, III-IV/80 (JS), Kabul Valley, south and west Afghanistan common IV/69 (JV). Whistler, 1944 gives many records throughout the country for April.
38. Regulus regulus (Linnaeus) goldcrest  
R. r. himalayensis Bonaparte. Breeding in the east (Vaurie). Recorded from Pashki (E) V, VI/48 (KP). R. r. tristis Pleske. Winter visitor (HE). Recorded from Qargah XII/79 (JS), Chahiltan XI, XII/33 (Ma), Kabul XII/73-III/74, XI/74-III/75, N Salang XII/73, Kunduz XII/73, II/74 (FR).

#### Family Muscicapidae

1. Muscicapa sibirica Gmelin sooty flycatcher  
M. s. gulmergi (Baker). Breeding in the east (HE). Recorded from Safed Koh V/1879 (WR) and Pashki (E) V, VI/48 (KP).
2. Muscicapa ruficauda Swainson red-tailed flycatcher  
 Breeding in the east (HE). Recorded from Safed Koh br V, VI/1879 (WR), Usman Khel (Gardez) V/49, Pashki (E) V, VI/48 (KP), Pech Valley (E) br V, VI/66 (LT), N Salang VII/70 (SM), and ?Kunduz (TE).

3. Muscicapa striata (Pallas)

spotted flycatcher

M. s. neumanni Poche. Summer visitor and passage migrant. Recorded from Pashki (E) V/48 (KP), Pech River (E) V, VI/66 (LT), Sinsoe (E) IX/66 (JN), Kabul IX/79 (JS), Kōle Hashmat Khan XI/66 (JN), Jam (C) V/77 (RP), VIII/72, Lashkargah (S) IX/72 (VV), III/74, 75, Panajir V/75 (FR), Darra-i-Shikari (C) br VI/49, Panjao (C) br VI/49, Obeh (W) VII/49 (KP), Bande Amir (C) VIII/70 (SM), Douchy (N), Danaghorī (N) Darre Shikari (N) V/37 (RM), Chil Gaz (NW) V/1885 (JA), Byan Khel (E) br VI/1879 (WR), Darwaz (NE) VII/72 (JN), Kandahar IX/1879 (St.J), IV/1881 (CS).

4. Fidecula superciliaris (Jerdon)

white-browed blue flycatcher

F. s. superciliaris. Recorded from Safed Koh VI/1879 (WR), Pech River (E) 2 400 m br V, VI/66 (LT).

5. Fidecula parva (Bechstein)

red-breasted flycatcher

Two subspecies F. p. parva and F. p. albicilla (Pallas). Passage migrant. F. p. albicilla is only once recorded from Ghorband (N) IV/37 (RM). F. p. parva is commonly recorded especially during April throughout Afghanistan up to 2 500 m. Project records from Kabul IX-X/79, IV/80 (JS).

## Family Monarchidae

1. Terpsiphone paradisi (Linnaeus)

Asian paradise flycatcher

T. p. leucogaster (Swainson). Summer visitor to central and east Afghanistan. Recorded from Wama (E) IV-V/48, Pech Valley (E) VII/48, Barak (NE) VII/48, Kwaja Chisht (W) VII/49 (KP), N Salang VII/70 (SM), Kabul VI/77 (P&C), VI/79 (JS), Shigul (E) IV/69 (JV), Kandahar IV/1881 (CS), Logar IV/33, Ashraf IX/34 (Ma), Danaghorī br, Ghorband br V/37 (RM).

## Family Timaliidae

Panurus biarmicus (Linnaeus)

bearded tit

P. b. russicus (Brehm). Probable summer visitor to Seistan and north-western Afghanistan (HE), reedlands of the Amu Darya (N) (Vaurie).

1. Turdoides caudatus (Dumont)

common babbler

T. c. huttoni Blyth. Resident and breeding in southern Afghanistan (HE). Recorded from Kandahar (Blyth, 1847), XII/1880 (CS), Farah Rud (SW) II-III/49, Farah II-IV, VI/49 (KP), Kuhak common IV/05 (JC), Kandahar, Lashkargah (S) I-XII/73-75 (FR), V/49 (KP).

Garrulax albogularis (Gould)

white-throated laughing thrush

G. a. whisleri Baker. Vaurie gives Afghan border or Mazara (C) eastwards.

2. Garrulax variegatus (Vigors)

variegated laughing thrush

G. v. similis (Hume). Summer visitor to the east (HE). Recorded for Pashki V-VI/48, Stiewe VI/48 (E) (KP), Barikot-Kamu (E) IV/69 (JV), N Salang XII/72, V, XII/73, IV/74, Kabul winter/73, 74, 74/75, Sarobi (E) II/75 (FR).

3. Garrulax lineatus (Vigors) streaked laughing thrush  
G. l. bilkevitchi (Zarudnyi). Summer visitor to Badakhshan.  
 Recorded by Vaurie. G. l. gilgit (Hartert). Summer visitor of  
 Nuristan. Recorded from Gusalek III/48, Wama IV/48 and Pashki V-VII/48  
 (E) (KP). Also recorded from Bande Amir (C) VIII/72 (VV).

## Family Aegithalidae

1. Aegithalos leucogenys (Horsfield and Moore) white-cheeked tit  
 Resident and breeding in Nuristan. Recorded from Chagha Sarai  
 (Moore, 1855), Pech Valley (E) br VI/66 (LT), Gusalek and Wama (E)  
 br III-V/48 (KP), Barikot (E), Kamu (E), Kamdesh (E) IV/69 (JV),  
 Daulatshah (E) V, VI/37 (WK). Also in Pakistanian Safed Koh  
 br III-V/06 (CW).

## Family Paridae

1. Parus rubidiventris Blyth rufous-bellied tit  
P. r. rufonuchalis Blyth. Resident of northern, central and eastern  
 Afghanistan. Recorded from Gardez V/35 (RM), Pech Valley (E) br VI/66  
 (LT), Kamdesh (E) IV/69 (JV), Wama, Pashki (E) IV-VII/48, Sauzak Kotal  
 (NW) VII/49 (KP), Khudikhel (SE) V/37, Daulatshah (E), Sirotai (E)  
 V, VI/37, Darami (NE) VIII/37 (WK), N Salang VII/70 (SM), I, III-IV,  
 XI-XII/73-75, Kabul I/74 (FR), Hariab (E) V/1879 (WR), Terak (C) IX/39,  
 Safed Sang (C) IX/39, Burchao (C) IX/39 (WK).
2. Parus melanolophus Vigors crested black tit  
 Resident of the east. Recorded from Safed Koh V, VI/1879 (WR),  
 Kamdesh (E) IV/69 (JV), Pech Valley (E) 2 200 m br V, VI/66 (LT),  
 Gusalek (E) II-III/48, Wama, Pashki (E) V/48, Usman Khel (Gardez)  
 br V/49 (KP), V/35 (Blanchard), Khudi Khel V/37, Sirotai (E) VI/37  
 (WK).
3. Parus cyanus Pallas azure tit  
P. c. flavipectus Severtzov. Resident to the northern Hindu Kush.  
 Recorded from N Salang VII/70 (SM), I/73, III/75, XI/74 (FR), Ajar  
 Valley V/77 (TE), Sufian (NE), Tirgaran (NE) VII/37, Iskan (NE)  
 VIII/37, Gurzan (NE) X/39 (WK).
4. Parus major Linnaeus great tit  
 Four subspecies are recognized: P. m. cashmirensis Hartert (or  
P. m. decolorans Koelz). Resident of Nuristan and Safed Koh.  
 Recorded from Pech Valley (E) br V, VI/66 (LT), Pech-Parun Valleys  
 (E) II-VI/48 (KP), Chagai Sarai (E) III/1840 (WG), Byan Khel (E)  
 br IV/1879 (WR), Kamdesh, Kamu IV/69 (JV). P. m. decolorans Koelz.  
 Resident of Kabul and eastern Afghanistan (HE). Recorded from  
 Jalalabad, XII/37, Daulatshah, Pactak VI/37 (WK). P. m. ziaratensis  
 Whistler. Resident of the area to the west and southwest of the  
 Hindu Kush. Recorded from Herat VII/49, Khwaja Chisht (W) VII/49 (KP),  
 Kandahar III/1879 (St.J) I/1881 (CS) X-XI/50, Herat X-XI/50 (WK).  
P. m. ferghanensis is synonym with P. bokharensis (Vaurie). P. major  
 is recorded by FR from Kabul, Sarobi, Jalalabad, Kandahar but only  
 between XI-III/73-75.

5. Parus bokharensis Lichtenstein

Turkestan great tit

P. b. bokharensis. Resident and breeding in Badakhshan, westwards to Afghan Turkestan, the Paropamisus and Iranian border (HE). Recorded from mulberry orchards in N Salang VII/70 (SM), Mazar-i-Sharif II/74 (FR), Balkh IX, XI/37, Taskurghan IX/37, Tukzar IX/39 (WK), Haibak (N) br V/37 (RM), Palunda-Karrez Darra (W) XII/1884 (JA).

## Family Sittidae

1. Sitta leucopsis Gould

white-cheeked nuthatch

S. l. leucopsis. Resident of eastern mountainous Afghanistan. Recorded from Byan Khel (E), Peiwar (E) br V, VI/1879 (WR), Pech Valley (E) br VI/66 (LT), Pashki (E) V-VI/48 (KP), Gardez V-VI/35 (Blanchard), Sirotai (E) VI/37 (WK).

2. Sitta europaea Linnaeus

common nuthatch

S. e. cashmirensis Brooks. Resident of eastern Afghanistan up to 4 000 m (HE). Recorded from Pech-Parun Valleys (E) III-VII/48 (KP), Kamdesh (E) IV/69 (JV), Byan Khel IV/1879, Peiwar Kotal (E) br V/1879 (WR), Khudi Khel (E) V/37, Daulatshah (E), Kail (E) VI/37 (WK), Pech Valley (E) 2 200-2 400 m br V, VI/66 (LT).

3. Sitta tephronota Sharpe

great nuthatch

S. t. tephronota. Resident of mountainous Afghanistan. Recorded throughout the Hindu Kush, Badakhshan. Project records from Ajar Valley III/79 (JS).

## Family Trichodromadidae

1. Trichodroma muraria (Linnaeus)

wall creeper

T. m. nepalensis Bonaparte. Resident of central, eastern and north-eastern Afghanistan (KP). Winter visitor of Jalalabad and Amu Darya Valley (JN), and of lower levels (Whistler, 1944). Project records from Qargah XII/79, Ajar Valley III/78 (JS).

## Family Certhiidae

1. Certhia himalayana Vigors

Himalayan tree creeper

C. h. himalayana. Resident of eastern Afghanistan. Recorded from Pech Valley (E) 2 300 m br V, VI/66 (LT), Pashki (E) V/48 (KP), Kail (E), Sirotai (E), Ferajghan Pass VI/37, Jalalabad XII/37 (WK), Kamdesh (E) IV/69 (JV), Pushut IV/1840 (WG), Peiwar Kotal (E) br VI/1879 (WR), Kail (E), Farajghan Pass (E), Sirotai (E) VI/37, Jalalabad XII/37 (WK). G. h. taeniura Severtzov, resident of Paropamisus and probably Hindu Kush (HE). Recorded from Sauzak Kotal (NW) VII/49 (KP), Terak (C), Safed Sang (W) IX/39, Burchao X/39 (WK). The Himalayan tree creeper is also recorded from N Salang (C) XI/73, Kunduz XII/73 (FR).

## Family Remizidae

1. Remiz pendulinus (Linnaeus)

penduline tit

R. p. coronatus (Severtzov). Summer visitor to Badakhshan and winter visitor to southern Afghanistan (HE). Recorded from Tirpul (NW) IV/1885 (JA), Farah Rud Estuary (SW) (as R. p. caspius) III/49 (KP), Sarobi IV/74, Lashkargah II/75 (FR). R. p. nigricans (Zarudnyi) breed in the reedbeds of the Helmand Basin in Iranian Seistan (KP).

## Family Nectariniidae

1. Nectarinia asiatica (Latham) purple sunbird  
N. a. brevirostris Blanford. Summer visitor to the Jalalabad region. Recorded from Kunar Valley VI (HE), Pech Valley (E) VIII/48 (KP), Kalaigulaman (Laghman) VI/37 (WK), Khyber Pass, Chagha Sarai (E), Barikot (E), Kamu (E) IV/69 (JV). JV calls it a probable expansion of the area.

## Family Zosteropidae

1. Zosterops palpebrosa (Temminck) oriental white-eye  
Z. p. egregia Madarasz. One record from Jalalabad XII/37 (WK).

## Family Oriolidae

1. Oriolus oriolus (Linnaeus) golden oriole  
O. o. oriolus. Passage migrant (HE). O. o. kundoo Sykes. Common summer visitor and passage migrant from May on. Recorded throughout the country, also in Wakhan.

## Family Laniidae

1. Lanius isabellinus Hemprich & Ehrenberg isabelline shrike  
(sometimes treated conspecific with L. collurio). L. i. isabellinus. Winter visitor and common passage migrant throughout the country especially between February and March (FR) but not of the east. Also recorded from Wakhan IX/65 (JN) and Bamian IX-X/49 (KP).  
L. i. phoenicuroides (Schalow). Summer visitor and passage migrant. Recorded between May and November throughout the country but not from the east.
2. Lanius vittatus Valenciennes bay-backed shrike  
L. v. nargianus Vaurie. Summer visitor to the south and east (HE), recorded from Kabul VI/75 (FR), Chakar Darra (C) VIII/72 (VV), Kole Hashmat Khan V/66 (JN), V/77 (TE), VI/77 (P&C), Khinjan (C) br VII/33 (Ma), Sarobi (E) br VI/72, Arghandab br VI/72 (ES), Lashkargah IV/73, Kandahar V/74 (FR), IV/1881 (CS), Robat (SW) V/1896 (FM), Panjao (C) VIII/72 (VV), Ghorband (C) VI/49 (KP), Ab-i-Estada VI/79 (JS), Karizmir, Baghlan VI/77 (P&C), Tirlpul (NW) IV/1885, Kambas (NW) V/1885 (JA).
3. Lanius schach Linnaeus black-headed shrike  
L. s. erythronotus (Vigors). Common summer visitor and passage migrant in the whole of Afghanistan. Many records between April and October. Project records from Kabul VII-IX, XI/79 (JS).
4. Lanius minor Gmelin lesser grey shrike  
L. m. turanicus Fediuschin. Summer visitor to western and northern Afghanistan. Recorded from western Afghanistan, common VIII/72 (VV), IV/69 (JV), V/77 (RP), Obek (W), Murghab, Pul-i-Khumri (N) VII/VIII/49 (KP), Arghandab (SE), Arghestan (SE) VI/72, Bamian VII/72, Panjao (C), Waras (C) VIII/72 (ES), Danaghori, Tash Kotal br, Kunduz br V/37 (RM), Akinjaram VII/33 (Ma), Kunduz, Pol-i-Chamra (N), Ghazni IV, V/73-75 (FR), Tirlpul, Khusan (NW) IV/1885 (JA), Kandahar IV/1881 (CS), ?Ab-i-Estada-Kabul V/76 (TE).

5. Lanius excubitor Linnaeus great grey shrike  
L. e. aucheri Bonaparte. Recorded from Shore Kaltegai (NW) V/1885 (JA), L. e. pallidirostris Cassin. Winter visitor to southern Afghanistan (KP), (HE): Kandahar IX/1879 (St.J). Frequently reported throughout the country between X-III/73-75 (FR) also from Murghab, Guldara (N) VIII/72 (VV), and Pol-i-Chamra (N) VII/74 (FR), Kabul Valley IV/77 (TE).
6. Lanius senator Linnaeus woodchat shrike  
L. s. niloticus (Bonaparte). Recorded from Farah-Rud Estuary, Seistan III/49 (KP), and Girishk II/72 (ES).

## Family Dicruridae

1. Dicrurus macrocercus (Vieillot) Himalayan black drongo  
D. m. albirictus (Hodgson). Summer visitor of the east (HE). Many records from Nuristan, Sarobi and Jalalabad between May and June. Also recorded from Safed Koh 1879 (WR), Kabul IV, V/74 (FR), Dashte Nawar-Kabul V/76 (TE), Darunta II/79 (JS), Kunar, Pushut (E) III/1840 (WG), Jalalabad VIII/72 (VV), IX/77 (In), br V/37 (RM).
2. Dicrurus leucophaeus Vieillot ashy drongo  
D. l. longicaudatus Jerdon. Summer visitor to eastern Afghanistan, south of the Hindu Kush (Vaurie, HE). Recorded from Khudi Khel (E), Daulatshah (E) IV-VII/37 (WK).

## Family Corvidae

1. Garrulus lanceolatus Vigors lanceolated jay  
 Eastern Afghanistan and Safed Koh. Recorded from Pansjir Valley VI (HE), Gusalek, Wama, Pashki (E) II-V/48 (KP), Barikot (E), Kamdesh (E) IV/69 (JV).
2. Pica pica (Linnaeus) magpie  
P. p. bactriana Bonaparte. Resident and common throughout Afghanistan, except the eastern part, where it does not occur and the magpie is scarce in the south.
3. Nucifraga caryocatactes (Linnaeus) nutcracker  
N. c. multipunctata Gould. Resident in eastern Afghanistan (HE). Recorded from Wama, Pashki (E) IV-VI/48 (KP) and Peiwar Kotal (E) 1879 (WR).
4. Pyrrhocorax graculus (Linnaeus) alpine chough  
P. g. digitatus Hemprich & Ehrenberg. In the Hindu Kush from Herat to Pamirs and Nuristan (HE). Recorded from Pech Valley (E) IV-VI/48, Weran, Kokcha, Warduj, Sanglich Valleys (NE) VII/48 (KP), Salang VII/70 (SM), Ajar Valley III/79 common (JS), Wakhan, Big and Small Pamir VII-VIII/71 very common (No), Khalachan IX/33 (Ma), Salang II, VI, VII, XI, XII/73-75 (FR).
5. Pyrrhocorax pyrrhocorax (Linnaeus) red-billed chough  
P. p. docilis (Gmelin). Resident of the Hindu Kush, Nuristan and Pamirs (HE). Recorded from Pech Valley (E) VI/48, Wera, Kokcha, Sanglich Valleys (NE) VII/48, Maimansh VII/49, Bamian and Darra-i-Shahidan (C) IX-X/49, Kandahar II/49, Farah II/49 (KP), Ajar Valley III/79 (JS), Salang VII/70 (SM), Wakhan, Big and Small Pamir

Salyan = Salian  
 Samangan 36°15' 68°03'  
 Samuli Afghan-Baluch border  
 Sanglich 36°20' 71°14'  
 Sardy Lake Kabul Valley  
 Sar-i-Kol = Zor Kol 37°27' 73°42'  
 Sarkhad-i-Wakhan 36°59' 73°26'  
 Sarobi 34°40' 69°46'  
 Sarghae Wakhan  
 Sar-i-Asia = ?Khush Asia 34°59' 62°19'  
 Sarai Siah Ab Cave 32°12' 62°19'  
 Sauzak Pass 62°30' 34°30'  
 Scham Schirrohr = Shamshir Ghar  
 Seistan SW Afghanistan  
 Senza 35°10' 71°10'  
 Shaharistan SW Afghanistan  
 Shahar Shamba 35°43' 63°58'  
 Shahgul = Shigul 34°48' 71°05'  
 Shar-i-Chasma = Chasma-i-Cher  
 36°05' 68°35'  
 Shahidan E 34°50' 67°37'  
 Shahidan S 32°31' 64°48'  
 Shahrak 34°06' 64°18'  
 Shamshir Ghar 31°33' 65°28'  
 Shar-i-Gholghala central Afghanistan  
 Shibar Pass 34°55' 68°18'  
 Shibergan = Shibargan 36°40' 65°42'  
 Shigul 34°48' 71°05'  
 Shindand = Sindand 33°16' 62°05'  
 Shombul 34°55' 68°18'  
 Shorawak 31°48' 64°16'  
 Sia Koh Mts SW mountain spur  
 Sim Koh Mts NW mountains  
 Sirotai = Saroti 33°28' 69°25'  
 Small Pamir 37°05' 74°20'  
 Spin Daldak 31°00' 66°23'  
 Stiewe 35°30' 70°56'  
 Sufak N central Afghanistan  
 Sulaiman Mts Pakistan  
 Supian Badakhshan  
 Surkhab R 34°21' 70°00'  
 Sust-e-Bala 37°00' 72°40'  
 Taimani Watt E Afghanistan  
 Tajan R extreme NW Afghanistan  
 Tagau 34°50' 69°40'  
 Taliqan 36°45' 69°35'  
 Tarnak Valley north of Kandahar  
 Tashgurghan 36°44' 67°41'  
 Tash Kotal 36°40' 67°40'  
 Terghem Qorum 37°15' 74°20'  
 Tilli 35°50' 70°38'  
 Tirgaran = Tigaran 36°39' 71°08'  
 Tirish Mir Pakistan  
 Tirpul 34°34' 61°20'  
 Tolibai = Tulibai 37°10' 72°57'  
 Tomam Agha Iran  
 Tsah Gorgan 36°45' 67°40'  
 Turkestan N plains  
 Unai Pass 34°27' 68°25'  
 Usman Khel 33°52' 69°37'  
 Victoria Lake = Sar-i-Kol  
 Waghdjir 37°05' 74°20'  
 Wakhan E Badakhshan  
 Wama 35°07' 70°44'  
 Wardah S of Kabul  
 Warduj Badakhshan  
 Wazirabad = Balkh  
 Weran Pass 35°33' 70°31'  
 Yawkawlang Badakhshan  
 Zabul Iran  
 Zagin ± 33° 62°  
 Zebak 36°32' 71°21'  
 Zindijan = Zindajan 34°10' 61°15'  
 Zor-i-Kol 37°27' 73°42'

VII-VIII/71, IX/65 common (No), (JN), Darwaz VII/72 very common (JN), eastern Hindu Kush common br IV/37 (RM), Samangan, Salang, Doab, Kabul, Bamian, Kandahar 73-75 (FR), Kandahar flocks in winter 1879 (St.J), Bande Amir, Bamian VIII/72 (VV).

6. Corvus monedula Linnaeus jackdaw  
C. m. soemmerringii Fischer. Breeding to the north of the Hindu Kush and winter visitor to the south (KP). Recorded from Haibak (N), Maimanah br V/37 (RM), VII, VIII/49 (KP), Faizabad (N), Keshem VI/77 (P&C), VIII/65 (JN), Kabul, Qargah XII-IV/64-66 (JN), II/77 (TE), Kandahar I/1881 (CS), IV/1879 (St.J), Murghab XII/1884 (JA), Maruchat (NW) XII/1884, Karawal (NW) IV/1885 (CY), Logar I/34 (Ma), Kunduz XI/74, Kabul XI/73, I/75, Pol-i-Shamri XII/73, Douchy II/74 (FR).
7. Corvus splendens Vieillot housecrow  
C. s. zugmayeri Laubmann. One record only, from Khost (E) VII/64 (JN).
8. Corvus frugilegus Linnaeus rook  
C. f. frugilegus. Common winter visitor, except in the higher ranges between October and April, in the south arriving in January/February, leaving in March.
9. Corvus corone Linnaeus crow, hooded crow  
C. c. orientalis Eversmann. Summer visitor and breeding recorded in Qargah 73-75 br (FR), Paghman br 64-66 (JN), Haibak, Kunduz, Upper Kabul Valley, Unai Pass, Bamian, Doab and Danaghori br IV, V/37 (RM), common winter visitor between XI and V, in Jalalabad and Sarobi only in I and II (FR). C. c. sharpii Oates. Hooded crow, breeding in the north: Daulatabad (N) VIII/72 (VV), Mazar-i-Sharif 73-75 (FR), elsewhere between X and III common winter visitor.
10. Corvus macrorhynchos Wagler jungle crow  
C. m. intermedius Adams. Resident in the wooded parts of the east (KP) and probably southwest (HE). Recorded from Gusalek, Wama, Pashki, Stiewe (E) II-VI/48 (KP), Nuristan common IV/69 (JV), Hariab Valley (E) br V/1879 (WR).
11. Corvus ruficollis Lesson brown-necked raven  
C. r. ruficollis. Resident of arid northern (KP) and southern (HE) Afghanistan. Recorded from Andkhui (N) VII/49 (KP), Qargah VIII/74 (FR), Seistan, Paropamisus (Vaurie).
12. Corvus corax Linnaeus raven  
C. c. subcorax Severtzov. Resident and widely distributed, many records throughout the country. In Wakhan probably C. c. tibetanus Hodgson (HE).

#### Family Sturnidae

1. Sturnus pagodarum (Gmelin) brahminy starling  
 Summer visitor and breeding in the east (HE). Recorded from Jalalabad IX/77 (In), VI/37 (RM), Kabul VI/77 (P&C), /79 (JS), 1840 (WG), br V-VIII/74 (FR), Guldara (C) VIII/72 (VV), V-XI/69 (AP), Mainakhel, Tagau (E), Chandau (E) VI/37, Marmakhel V/39 (WK).



2. *Sturnus vulgaris* Linnaeus starling  
*S. v. nobilior* Hume. Breeding in the north and migrating to Seistan (HE). Recorded from Arghandab 1840 (WG), Haibak br V/37 (RM), Faizabad (N) VII/48 (KP). *S. v. poltaratskyi* Finsch. Passage migrant and winter visitor. Recorded from Kandahar 1840 (WG), Vagnami XI/33 (Ma), Gusalek (E) III/48, Bamian X/49 (KP). *S. n. porphyronotus* Sharpe. Winter visitor (HE). Kabul X/1839, Jalalabad 1840 (WG). The starling is also recorded from Ajar Valley (C) III/79 (JS), Faizabad (N) common VIII/65 (JN), Mukur III/65, Jalalabad II/66, Kandahar XII/64 (JN), Kabul III/78 common, II/77 (TE), X/64, X-XI/65, III/66 (JN), first XII/79 (JS), Kote Hashmat Khan IV/69, Kamdesh (E) ? br IV/69 (JV). FR records the starling as winter visitor between X/73-IV/74 throughout Afghanistan, except in the south.
3. *Sturnus roseus* (Linnaeus) rose-coloured starling  
 Summer visitor and abundant passage migrant, perhaps breeding in central (KP) and north (HE) Afghanistan. Records throughout Afghanistan for IV-V and VII-VIII. Summer records from Pech Valley (E) II-VI/48, Panjao (C) VI/49 (KP). The rose-coloured starling has an east-west migration from India to its breeding area in USSR to avoid deserts.
4. *Acridotheres tristis* (Linnaeus) common mynah  
*A. t. tristis*. Common resident of most of Afghanistan except the central highlands and the steppes in the SW (KP), vigorous expansion into Afghanistan since 1925 (Marien, 1951). Concentrated in urban areas.
5. *Acridotheres ginginianus* (Latham) bank mynah  
 Straggler, recorded from Kandahar, 1840 (WG).

#### Family Passeridae

1. *Passer ammodendri* Gould saxoul sparrow  
*P. a. korejewi* Zarudnyi and Hürms. Breeding in NW Afghanistan (HE).
2. *Passer domesticus* (Linnaeus) house sparrow  
*P. d. persicus* Zarudnyi and Kudashev (intergrading to *P. d. indicus* Jardine and Selby). Summer visitor to the SW. Records from Faizabad (SW) and Farah (SW) IV/49 (KP). *P. d. bactrianus* Zarudnyi and Kudashev. Summer visitor and breeding in all provinces except the wooded parts of Nuristan and Seistan. In winter only in lower Kabul and in Kunar Valleys. Many records throughout Afghanistan. Project records Kabul: VII-IX/79, IV/80 (JS). *P. d. parkini* Whistler. Summer visitor to the Pamirs (HE).
3. *Passer hispaniolensis* (Temminck) Spanish sparrow  
*P. h. transcaspicus* Tschusi. Summer visitor and breeding in northern and central Afghanistan. Passage migrant in the south (KP). Often mixed flocks with *Passer domesticus*, winter visitor to the lower Kabul Valley. A bird ringed in USSR 670 km to the north 8/X/73 was caught in Kunduz 28/X/73. Recorded throughout the country, especially between III-V and IX-X.

4. Passer rutilans (Temminck) cinnamon sparrow  
P. r. cinnamomeus (Gould). Breeding in Nuristan (HE), recorded from Otipore (E) 1840 (WG) and probably from Kunduz IV/78 (TE).
5. Passer moabiticus Tristram Dead Sea sparrow  
P. m. yatii Sharpe. Resident in Seistan (KP, HE). Recorded from Lower Farah Rud, Seistan III/49 (KP), De Kamran-De Doda, large flocks X/1884 (JA), Na-i-Ab River (SW) III/03 (JC), Lashkargah 7V/75 (FR).
6. Passer montanus (Linnaeus) tree sparrow  
P. m. dilutus Richmond. Resident throughout Afghanistan. Common in villages and nearby fields (KP). Project records from Kabul: III-XII/79 I-IV/80 (JS).
7. Petronia brachydactyla Bonaparte pale rock sparrow  
Recorded from western Afghanistan. JV collected specimens in Shindand and Andreshkan (W) V/69.
8. Petronia xanthocollis (Burton) yellow-throated sparrow  
P. x. xanthocollis. Breeding in southern and eastern Afghanistan (KP) also passage migrant. Records from Kandahar V/1879 (St.J), Laghman V/37 (WK), Farah IV/49 (KP). P. x. transfuga (Hartert) summer visitor of southern Afghanistan (Vaurie).
9. Petronia petronia (Linnaeus) rock sparrow  
P. p. intermedia Hartert. Common resident in northern and central Afghanistan east to Faizabad and Ishkahim, winter visitor to lower altitudes. Breeding recorded from Salang N IV-VII/73-75 (FR), Dragon (C) VIII/72 (VV), Bamian, Haibak, Kunduz IV/37 (RM).
10. Montifringilla theresae Meinertzhagen Theresa's snow finch  
Endemic for Afghanistan, occurs in the mountains NW of Kabul. Winter migrant to Soviet Union (KP). Records from Shibar Kotal (C), Bamian IV/37 (RM), Sabz Kotal (C) VIII/39 (WK), Shibar Kotal VI/49, Bamian IX-X/49 (KP), VI/73, VII/74 (FR), Unai Pass VI/49 (KP), IV/65 (JN), Bande Amir VI/77 (P&C), VII, VIII/70, Nil Kotal VII, VIII/70 (Wood & al. 78), Dashte Nawar VI/65 (JN), V/77 (TE), N Chakcharan (C) V/77 (RP), Koh-i-Baba (C), Chakcharan (C), Sia Koh (C) VIII/72 (VV).
11. Montifringilla nivalis (Linnaeus) snow finch  
M. n. alpicola (Pallas). Resident of the mountains of central, east and northeast Afghanistan, uncommon in Nuristan (KP). Many records, breeding recorded from Salang, Bamian 73-75 (FR), Khinjan (C) VII/33 (Ma), Shibar (C), Unai (C) V/37 (RM), Unai-Panjao (C) V-VI/49 (KP). Project record from N Salang VII/79 (JS).

#### Family Estrildidae

1. Lonchura punctulata (Linnaeus) spotted mannikin  
L. p. punctulata. Recorded from Jalalabad IX/77 (In).

## Family Fringillidae

1. Fringilla coelebs Linnaeus chaffinch  
F. c. coelebs Linnaeus. Winter visitor to northern, eastern and southern Afghanistan. Recorded from Kabul Valley II/77 (TE), Qargah XII/65 (JN), XII/79 (JS), Kabul common winter guest (JN), I-III/80 (JS), Burchao Pass X/39, Maimanah XI/37 (WK). According to FR between X-IV common winter visitor in: Kabul, Kunduz, Salang, Douchy (C), Sarobi, Pol-i-Shamri (C), Samangan, Mazar-i-Sharif, Lashkargah, Baghlan 73-75 (FR).
2. Fringilla montifringilla Linnaeus brambling  
 Winter visitor. Recorded from Kabul XI, XII/79, I-III/80 (JS), III/78 (TE), IV/37 (RM), Kabul Valley II/77 (TE), Qargah XII/79 (JS), II-III/65 (JN), Burchao Pass (C) X/39. Kang (SW) XI/37, Bala Murghab XI/39, Maimanah XI/39, Mazar-i-Sharif XI/39, Balkh X-XII/39 (WK), Chahiltan (C) XI, XII/33 (Ma), Panjah (NE) IV/1874 (Bi), Bamian IV/37 (RM) Kandahar I/1880 (St.J). Winter visitor to Kabul, Douchy (C), Pol-i-Shamri (C), Lashkargah (S), Salang, Baghlan, often in mixed flocks with chaffinches, buntings, between XI-III/73-75 (FR).
3. Serinus pusillus (Pallas) red-fronted serin  
 Common resident and breeding bird of mountainous Afghanistan including Nuristan and winter visitor to lower elevations (HE). Breeding recorded from Doab (C) juv VII/74 (FR), Byan Khel VI/1879 (WR).
4. Carduelis chloris (Linnaeus) greenfinch  
C. c. turkestanicus (Zarudnyi). Winter visitor to northern Afghanistan (HE). Recorded from Kabul XII/79 (JS), II, III/74 (FR), Balkh XII/37 (WK).  
Carduelis spinoides Vigors black-headed greenfinch  
C. s. spinoides Stuart Baker (in HE) recorded it from Afghan-Baluchistan border (Iran).
5. Carduelis carduelis (Linnaeus) goldfinch  
C. c. paropanisi Kollibay. A widely distributed resident and winter visitor throughout the country but rather scarce everywhere (KP). Breeding recorded from Ghorband (C) V/37 (RM), Chahiltan (C) VI/33 (Ma). Project records from Chemptala (Kabul) XI/79 (JS).  
C. c. subulata (Gloger). Rare winter visitor (HE), only recorded from Bamian IV/37 (RM).
6. Carduelis spinus (Linnaeus) siskin  
 Recorded from Kabul I, II/75, Salang N XI/74 (FR).
7. Carduelis cannabina (Linnaeus) linnet  
C. c. bella (Brehm). Resident of the high semideserts of the Hindu Kush, in the winter to lower altitudes. Recorded from Sauzak Kotal (W) VII/49 (KP), Ajar Valley III/79 (JS), Bande Amir, Sia Koh (C) VIII/72 (VV), Salang S V/75, Samangan I/75, II/74, Kabul I/75, Mazar-i-Sharif II/74 (FR), Gandachesma (C), Sufian (C), Tigaran (C) VII/37, Sabz Pass VIII/39, Gharchi (S) Gurzan (S) X/39, Kabul XI/39, Mazar-i-Sharif XII/37 (WK).

8. Carduelis flavirostris (Linnaeus) twite  
C. f. korejewi (Zarudnyi and Hürms). Widely distributed resident and breeding in the high mountain pastures of the central Hindu Kush and Pamirs. Breeding recorded from Paghman IV/37 (RM), Unai, Shibar (C) VI/49 (KP), summer 64-65 (JN). Easterly records: Dashte Nawar VI/65 (JN), Tolibai (Big Pamir) VIII/71, Kotal-i-Dalez (Wakhan) VII/71 (No).
9. Loxia curvirostra Linnaeus crossbill  
L. c. tianschanica Laubmann. Probably passage migrant (HE), may wander into Afghanistan (Vaurie). Recorded from Kabul I/73 (FR), winter/78 (Haywood). Also Blyth reported them from Afghanistan.
10. Leucosticte nemoricola (Hodgson) plain mountain finch  
L. n. altaica (Evertsmann). Resident in Badakhshan (HE) and Nuristan (KP). Recorded from N Salang (C) VII/70 (SM), VII/65 (JN), V/75, VII/74 (FR), Wakhan, Small and Big Pamir VII, VIII/71 (No), Qala-i-Pandja (NE) IV/1874 (Bi), IX/65, Sust-e-Bala (Wakhan) VIII/72 (JN), Weran Valley, Miyan Deh (NE) br VII/48, Pashki, Stiewe E VI/48 (KP), Kamdesh (E) IV/69 (JV), Sarobi II/72, Yakawlang (C) VIII/72 (ES), Iskatul (NE), Sanglich (NE) VII/37 (WK).
11. Leucosticte brandti Bonaparte Brandt's mountain finch  
L. b. pamirensis Severtzov. Resident of Badakhshan (HE) and Hindu Kush (JN). Recorded from Salang VII/70 (SM), VI/75, VII/74 (FR), Hindu Kush VI/65, Small Pamir IX/65 (JN), VII/71, Wakhan VII/71 (No), Weran Valley (NE) VII/48 (KP), Shahidan (C) V/72, Hadjijak (C) VIII/72 (ES), VIII/72, Bande Amir VIII/72 (VV), Sanglich (NE) VII/37, Munjan Pass (NE) VII/37 (WK).
12. Rhodopechys sanguinea (Gould) crimson-winged finch  
R. s. sanguinea. Resident of the high mountains of the Hindu Kush and the Pamirs (HE). Recorded from Panjao (C) VI/49 (KP), Hindu Kush VI/65 (JN), Bande Amir VII, VIII/70 (SM), VIII/72 (VV), Bamian VII/74, Salang S V/75, VIII/74 (FR), Ghorband (C), Shibar (C) V/37 (RM), Panjah (NE) IV/1874 (Bi), Wakhan common VII/71 (No), IX/65 (JN), Tolilai (Big Pamir) VIII/71 (No).
13. Rhodospiza obsoleta (Lichtenstein) black-billed desert finch  
(Syn. Rhodopechys obsoleta). Resident of Afghanistan except of the northeast (HE). Recorded from Kandahar IV/65 (JN), XII/1880, I-IV/1881 (CS), IV/69 (JV), Jam V/77 (RP), Adreshkan V/69 (JV), Qala Nau (N) br VII/49 (KP), VII, VIII/70, Bande Amir VII, VIII/70 (SM), Ajar Valley VI/76 (TE), Kabul spring/79 (JS), Lashkargah, Kandahar, Kabul, Kunduz between II-IX/73-75 (FR), Khelat-i-Ghilzai (S) X/1879 (St.J), Khusan (NW) IV/1885 (JA), Murghab (NW) VII/49 (KP), Gogirdak (NW) III/1885 (CY), Khalat-i-Gilzai (S) X/37, Farah, Herat, Balkh XI/37 (WK).
14. Bucanetes mongolicus (Swinhoe) Mongolian trumpeter finch  
(Syn. Rhodopechys mongolica). Breeding on rocky slopes at high altitudes of the Hindu Kush (Vaurie). Recorded from Bamian br VI/49, IX-X/49, Shibar (C), Panjao (C) VI/49 (KP), VIII/72 (VV), Ghazni-Dashte Nawar V/77 (TE), Kandahar XI/74 (FR), Panjah (NE) IV/1874 (Bi), Sanglich (NE), Zebak (NE) VII/37, Sar-i-Asia (NW), Sabz Pass (NW), Balaghli (NW), Andkhui (NW) VIII/37 (WK).

15. Bucanetes githagineus (Lichtenstein) trumpeter finch  
(Syn. Rhodopechys githaginea). B. g. crassirostris (Blyth). Resident of Afghanistan except of the northeastern part (HE). Recorded from Kabul IV/33, Ghazni VI/33, Chakri Minai br VII/33 (Ma), Pansjir V/75 (FR), Kabul Valley II/77 (TE), Haibak (C) br V/37 (RM), V/37 (WK), Chakcharan (C), Farsi (NW) V/75 (RP), VIII/72 (VV), Shin Dand (70 km N of) VII/49 (KP), Adreshkan IV, V/69 (JV), Ab-i-Estada IV/70 (JS), Dashte Nawar V/77 (TE), Chakri Minai (E) VII/37, Ghazni VI/37 (WK).
16. Carpodacus erythrinus (Pallas) common rosefinch  
C. e. ferghanensis (Kozlova). Summer visitor and passage migrant. Breeding in Badakhshan, Nuristan and eastern Hindu Kush. Many records between IV and IX from this area. Project records from Kabul IX/79 (JS).
17. Carpodacus synoicus (Temminck) Sinae rosefinch  
C. s. salimalii (Meinertzhagen). Resident in central Hindu Kush. Recorded from Bamian VI, IX-X/49 (KP), VII/74 (FR), IV/37, Shibar (C) IV/37, Akrobat IV/37 (RM), Doab VII/74 (FR), Sufak (N), Khami Deh (N) IX/39 (WK).
18. Carpodacus thura Bonaparte and Schlegel white-browed rosefinch  
C. t. blythi (Biddulph). Breeding in Safed Koh (HE). Not uncommon just over Pakistan border (CW).
19. Carpodacus rhodochlamys (Brandt) red-mantled rosefinch  
C. r. grandis Blyth. Resident in the mountains of the Hindu Kush and Badakhshan, west till Paropamisus (HE). Recorded from Pashki (E) V-VII/49 (KP), Darwaz VII/72 (JN), (but referred to C. r. kotschubeii) Salang N V/75 (FR), Pashat (E) 1840 (WG), Peiwar Kotal (E) VI/1879 (WR), Maimanah XI/37, Safed Sang (N) IX/39, Burchao Pass (N) X/39, Gumandra (E) VI/37, Sirotai (E) VI/37, Terak (E) IX/39 (WK).
20. Carpodacus rubicilla (Güldenstädt) great rosefinch  
C. r. diabolica (Koelz). Resident in the northeast (HE). Recorded from Langar (NE) VII/71 (No), Salang VII/70 (SM), Sanglich (NE) VII/37 (WK).
21. Mycerobas icterioides (Vigors) black and yellow grosbeak  
Resident of Safed Koh (HE). Recorded from Peiwar Kotal (E) VI/1879 (WR).
22. Mycerobas carnipes (Hodgson) white-winged grosbeak  
M. c. speculigerus (Brandt). Resident in mountainous Afghanistan from Herat to Badakhshan and in Safed Koh (HE). Recorded from Salang VII/70 (SM), Koh-i-Baba (C) VIII/72, Sia Koh (C) VIII/72 (VV), Byan Khel (E) IV/1879 (WR), Sirotai (E) VI/37, Terak (N) IX/39, Burchao (N) X/39 (WK).
23. Coccothraustes coccothraustes (Linnaeus) hawfinch  
C. c. humii Sharpe. Northwest Afghanistan. Recorded from Obeh (W) VII/49 (KP), Ashroff Pass (W) X/78 (Wassey), Kabul I/74 (FR), Khossik Pass (SE) IV/1839 (WG). Also recorded just over the Pakistan border of Safed Koh (E) V/06 (CW).

## Family Emberizidae

1. Emberiza leucocephalos Gmelin pine bunting  
E. l. leucocephalos. Winter visitor and passage migrant. Recorded from 25 km W of Sarobi (E) I/66 (JN), Pushut 1840 (WG), Gusalek (E) III/48 (KP), Kabul I, II/74 (FR), XI/33, Chahiltan XII/33, Logar (C) I, XII/34 (Ma), Douchy (C) II/74, Samangan (N) II/74 (FR), Ab-i-Kamarra (W) XII/1884 (JA), Kandahar XII/1879, I/1881 (St.J), I/1882 (CS), Panjah (WE) IV/1884 (Bi).
2. Emberiza citrinella Linnaeus yellow hammer  
E. c. erythrogenys Brehm. Rare winter visitor. Recorded from 25 km W of Sarobi I/66 (JN), Kabul II/74, Mazar-i-Sharif II/74 (FR).
3. Emberiza stewarti (Blyth) white capped bunting  
 Summer visitor to central and eastern Afghanistan (HE). Recorded from Wama, Pashki (E) IV-VI/48 (KP), Kamdesh (E) IV/69 (JV), Bande Amir VIII/70, Salang VII/70 (SM), br V/73-75, Pansjir (C), Doab (C), Bamian br V/73-75, Sarobi IV/74, Kabul IV/74 (FR), IX, X/79 (JS), Paghman, Darre Shihari (C), Doab (C) IV/37 (RM), Kunduz-Khanabad VIII/72 (VV), Obek (W) VII/49 (KP), Ajar, Paktia V/77 (TE), Byan Khel (E) br (WR).
4. Emberiza cia Linnaeus rock bunting  
E. c. par Hartert. Common summer visitor to Hindu Kush, Badakhshan and Nuristan (HE), (KP). In the winter down to lower altitudes. Project record Kabul, common III/80 (JS).
5. Emberiza striolata Lichtenstein house bunting  
E. s. striolata. Rare summer visitor to eastern Afghanistan. Recorded from Jalalabad VI/66 (JN), Darunta br VI/66 (JN), IV/69 (JV), and probably Herat V/77, Qala Nau br V/77 (RP).
6. Emberiza cineracea Brehm ashy-headed bunting  
?E. c. semenowi Zarudnyi. One record from Sarobi I/72 (ES).
7. Emberiza hortulana Linnaeus ortolan bunting  
 Passage migrant in northwest Afghanistan (HE). Recorded from Tirpul common IV/1885 (JA).
8. Emberiza buchanini Blyth grey-necked bunting  
E. b. buchanini. Summer visitor and breeding in the Hindu Kush and Badakhshan. Passage migrant (HE). Recorded from Tera Kotal (Gardez) V/49, Maidan (E) VI/49, Panjao (C), Shibar Kotal (C) VI/49, Bamian IX/49 (KP), IV/37, Paghman br V/37 Doab (C) IV/37, Ghorband br (C) V/37 (RM), Pansjir, Salang, Pol-i-Shamri (C), Samangan (N), Doab (C) from April 73-75 on (FR), Bande Amir VIII/70 (SM), VIII/72, Jam VIII/72 (VV), Kole Hashmat Khan IX/65 (JN), Kabul V/33, Jangal (C) IX/33 (Ma), Obek (W) VII/49 (KP), Kambao (NW) V/1885 (JA), Wakhan IX/65 (JN).
9. Emberiza fucata Pallas chestnut-eared bunting  
E. f. arcuata Sharpe. One report from July (Scully), referred in Whistler, 1944.
10. Emberiza rustica Pallas rustic bunting  
E. r. rustica. Two records only: Kabul III/80 (JS) and Sarobi XII/71 (ES).

11. Emberiza pusilla Pallas little bunting  
Recorded from Lokhi (SW) XI/71 and Sarobi XII/71 (ES).
12. Emberiza schoeniclus (Linnaeus)  
E. s. pallidior Hartert. Winter visitor. Recorded from Farah Rud Estuary, Seistan II/49 (KP), Kote Hashmat Khan III/65 (JN), Kabul I/74 (FR), Bagrani XI/33 (Ma), Kandahar II/1881 (CS), Chahar Shamba (NW), Kara Bel (NW), Gulla Chasma (NW) II, III/1885 (CY).
13. Emberiza bruniceps Brandt red-headed bunting  
Summer visitor and passage migrant. Widely distributed as a breeding bird around towns and villages between April and August but not in the south (KP). Many records throughout Afghanistan. Project records from Kabul VIII, IX/79 (JS).
14. Emberiza melanocephala Scopolo black-headed bunting  
One record from Melcharez, 60 km S of Kandahar, flocks IV/1881 (CS).
15. Miliaria calandra (Linnaeus) corn bunting  
M. c. buturlini (Johansen). Summer visitor and breeding in northern Afghanistan (HE). Recorded from Danaghori (N) br V/37, Khanabad (N) br V/37 (RM), Kunduz V/75, Samangan (W) II/72, 73 and between I-II/74 from Kunduz, Kabul, Douchy (C). Pol-i-Chara (C) (FR). Unsubstantiated reports from the Ajar Valley X/78 (Wassey) and Chakcharar V/77 (RP).

Appendix 7

## REPTILES OF AFGHANISTAN

## ORDER CHELONIA

## Family Testudinidae

1. Testudo horsfieldii Gray Afghan turtle  
Loamy and sandy steppes throughout Afghanistan up to elevation of 3 000 m. Common at lower elevations.

## Family Trionychidae

1. Trionyx gangeticus Cuvier  
One recorded, Khost (E) VII, VIII/69 (Schneider).

## ORDER SQUAMATA

## Family Gekkonidae

Agamura femoralis Smith

Not recorded from Afghanistan but occurs in neighbouring parts of Northwestern Baluchistan (Pakistan).

1. Agamura persica (Duméril)  
Afghanistan, south of Hindu Kush and the lowlands in the west along Iranian border; at Paghman up to 2 800 m elevation (LA), Chah-i-Angir (S) 330 m 1950 (LA), Girishk IX/57 (OW).
2. Alsophylax tuberculatus (Blanford)  
Seistan, Helmand River basin and higher regions to the east (2 700 m at Ghaom-i-Faringi). Recorded from Kandahar 1 425 m (LA), 30 km S of Mukur 2 300 m VII/64 (CC), Chah-i-Angir (S) 330 m 1950 (LA).
3. Alsophylax pipiens (Pallas)  
Vicinity of Kabul. Recorded from Kabul 2 000 m VII, VIII/64 (CC) IV, V/50, Paghman VIII/50 (LA), Oukak (E) 1965 (Mertens).
4. Crossobamon evermanni (Wiegmann)  
Western and northern Afghanistan (LA).
5. Crossobamon lumsdeni (Boulenger)  
Only known from Afghan-Baluch border between Nushki and Helmand (Boulenger, 1887).
6. Crossobamon maynardi (Smith)  
Helmand River basin (LA), Afghan Baluch Boundary (Maynard and McMahon).



7. Cyrtodactylus caspius (Eichwald)  
In Afghanistan to the north of the Hindu Kush. Recorded from Paghman 2 440 m, Mazar-i-Sharif 457 m IX/65, 100 km E of Faizabad VIII/65 (LA), Bala Murghab 470 m V/64, Mazar-i-Sharif 1964 (BK), Sarkol X/57, Pol-i-Khomri (N) X/57 (OW).
8. Cyrtodactylus fedtschenkoi (Strauch)  
North of the Hindu Kush and Paghman, west and south to Baluchistan. Recorded from 50 km W of Dilaram (W) 823 m XI/65, Kandahar 1 425 m (LA), 50 km W of Girishk (S) 1 200 m VIII/64 (CC), Kandahar IV/58, Girishk IV/58, Farah (SW) IV/58 (OW), Bala Murghab (NW) (GB).
9. Cyrtodactylus persicus (Nicol'sky)  
Recorded from Kabul, 1951 (LA).
10. Cyrtodactylus russowii (Strauch)  
Wermuth, 1965, records this species from northern Afghanistan.
11. Cyrtodactylus scaber (Heyden)  
South and southeast from low elevations up to 1 700 m. Recorded from Kandahar 1 425 m (LA), Herat 1 000 m VIII/64, Khost (E) 1 400 m VII/64 (CC), Jalalabad IV/67 (BK), Sharisafa (E) (LA).
12. Cyrtodactylus watsoni (Murray)  
Kabul River valley to the west as far as Jalalabad. Recorded from Jalalabad (LA), also by (GB) as C. kachhensis (Stoliczka).
13. Cyrtodactylus spec. nov.  
Helmand River basin from Farah to Kandahar (LA).
14. Eublepharus macularius (Blyth) panther gecko  
Eastern Afghanistan to the south of the Hindu Kush, even in Kabul townside up to 1 800 m elevation. Recorded from Jalalabad 732 m (LA), Minla (E) 1 200 m, Chirikar 1 800 m VII, VIII/64 (CC), Jalalabad 500 m III/65 (BK), II/57 Gulbahar (Kabul) II/57 (OW).
15. Hemidactylus flaviviridis Rüppell  
Only known from Paghman 2 440 m and Jalalabad 732 m, probably due to human agency (LA). Recorded from Jalalabad II-III/66, IV/67 (BK).
16. Teratoscincus bedriagai Nikolsky  
Helmand River basin to at least 1 600 m elevation. Recorded from Qala-i-Kang, 580 m XI/65, Kandahar 1 425 m (LA), Chah-i-Angir (S) 1950 (LA).
17. Teratoscincus microlepis Nikolsky  
Afghan-Baluchistan border (LA).
18. Teratoscincus scincus (Schlegel)  
Low deserts along the western and southern borders to 1 600 m elevation. Recorded from Qala-i-Kang (SW) 518 m XI/65, 50 m W of Dilaram (SW) (LA), Chah-i-Angir (S), 330 m 1950 (LA); Wermuth gives northern Afghanistan.

Appendix 3

LIST OF OBSERVERS  
(for literature see Bibliography)

Mammals	CN	C. Naumann	Reptiles & Amphibians	BK	B. Kral
	JG	J. Gaisler		CC	Clark, R.J. et al
	JH	J. Hassinger		GB	G. Brück
	JN	J. Niethammer		LA	A. Leviton and S. Anderson
	KH	K. Habibi		OW	O. von Wettstein- Westersheim
	KP	K. Paludan		RP	R. Petocz
	KZ	K. Zimmermann			
	MO	D. Meyer Oehme			
	No	G. Nogge			
	Ro	W. Rodenburg			
	VA	V. Aellen			
Birds	AP	A. Puget			
	Bi	J. Biddulph			
	CA	C. Swinhoe			
	CW	C. Whitehead			
	CY	C. Yate			
	ES	E. Smith			
	FM	F. Maywood			
	FR	F. Reeb			
	HE	F. Hué and R.D. Etchecopar			
	In	T. Inskipp			
	JA	J. Aitchison			
	JC	J. Cumming			
	JN	J. Niethammer et al.			
	JS	J. Sayer and A. van der Zon (partly)			
	JV	J. Vieillard			
	KP	K. Paludan			
	Ma	R. Maconachie			
	NA	N. Annandale			
	No	G. Nogge			
	P&C	Parinder and Crook			
	RM	R. Meinertzhagen			
	RP	R. Petocz			
	St.J	O. St. John			
	SM	S. Madge			
	TE	T. Eliot			
	VV	V. Vasic			
	WG	W. Griffith			
	WK	W. Koelz			
	WR	R. Wardlaw-Ramsay			

## Family Scincidae

1. Ablepharus bivittatus (Ménétries)  
A.b. lundbergi Wettstein. Upland Afghanistan to more than 3 000 m elevation (LA). Recorded from Obekh VII/57 (OW).
2. Ablepharus grayanus (Stoliczka)  
 In Afghanistan recorded only from the Sabzak Pass 2 190 m VI/59 (OW).
3. Ablepharus pannonicus Lichtenstein  
 Foothills and mountains in most of Afghanistan to 2 500 m elevation. Recorded from 36 km S of Kabul 2 300 m IV/50 (LA), Qal-i-Chahrak (C) VIII/57, Qal-i-Nau (NW) X/57, Bamian IX/57 (OW).  
Eumeces blythianus (Anderson) Blyth's skink  
 Not yet recorded from Afghanistan but from Khyber Pass Region (Pakistan) (LA).
4. Eumeces schneideri (Daudin) Schneider's skink  
E. s. princeps (Eichwald). Lower steppes north of the Hindu Kush (LA).  
E. s. zarudnyi. Helmand Basin (LA).
5. Eumeces taeniolatus (Blyth)  
 Steppes near Pandjvai (Kandahar) and Tajan River on Afghan-Iran-Turkmen border (LA). Recorded from Bala Murghab (NW) 50 m (GB), IV/64, 20 km E of Jalalabad V/67 (BK), Kandahar IV/58 (OW).
6. Mabuya aurata (Linnaeus)  
 Possibly recorded from Tajan River at the Afghan-Iran-Turkmen borders (LA).
7. Mabuya dissimilis (Hallowell)  
 Kabul river valley to 1 200 m elevation. Recorded from Jalalabad 732 m (LA), 15 km E of Nimla 1 200 m (CC).  
Ophiomurus brevipes (Blanford)  
 Not yet recorded from Afghanistan but it is found in adjacent areas in Iran and USSR (Terent'ev and Chernov).
8. Ophiomurus tridactylus (Blyth) snake skink  
 Sandy areas of Helmand Basin and adjacent areas. Recorded from 30 m E of Girishk 1 100 m VIII/64 (CC), Chah-i-Angir (S), 330 m /50 (LA) Kandahar, Helmand (Boulenger, 1887), Chaman (Alcock & Fynn, 1896).
9. Scincella himalayana (Günther)  
 Mountainous region of Nuristan (Pashki) 1948 (KP).

## Family Lacertidae

1. Acanthodactylus blanfordii Boulenger  
 Recorded from Afghanistan (Arnold, pers. inf.).
2. Acanthodactylus cantoris (Günther) fringe-toed lizard  
 Kabul River valley and Helmand River basin. Recorded from Jalalabad 732 m (LA), 30 km E of Girishk (S) 1 100 m, 30 km SE Kandahar 1 300 m, Nimla (E) 1 200 m VII-VIII/64 (CC), Chah-i-Angir (S) 330 m 1950 (LA), Jalalabad II/66 (BK).

3. Eremias acutirostris (Boulenger) desert lacertid  
Desert basin of southeastern Afghanistan. Recorded from Helmand-Nushki (Boulenger, 1887).
4. Eremias aporosceles (Alcock and Finn)  
Along Afghan-Baluchistan border (LA).
5. Eremias aria Anderson and Leviton  
Jalalabad Valley, endemic for Afghanistan. Recorded from Nimla (E) 1 200 m VII/64 (CC).
6. Eremias fasciata Blanford  
Southern Afghanistan in the Helmand Basin. Recorded from Chah-i-Angir (S) 330 m 1950 (LA), Helmand Basin 1889 (Boulenger).
7. Eremias grammica (Lichtenstein)  
Lowland regions of Afghanistan, north of the Hindu Kush. Recorded from Aq Chah (Mazar-i-Sharif) summer/64 (BK).
8. Eremias guttulata  
E. g. watsonana Stoliczka  
Common throughout Afghanistan, to 2 600 m elevation (LA).
9. Eremias intermedia (Strauch)  
Valley of Tajan River at the Afghan-Iran-Turkmen borders (LA) and recorded from Aq Chah (Mazar-i-Sharif) summer/64 (BK).
10. Eremias lineolata (Nikolsky)  
Lowland regions of Afghanistan, north of the Hindu Kush. Record from Bala Murghab (GB).
11. Eremias nigrocellata (Nikolsky)  
Lowland regions of northern Afghanistan. Recorded from Faizabad (NE) 2 653 m VIII/65 (LA), Wakhan 3 100 m (RP).
12. Eremias regeli Bedriaga  
Kabul River Valley. Recorded from 15 km E of Nimla 1 200 m VII/64 (CC).
13. Eremias scripta (Strauch)  
Desert regions in the south (LA) and north. Recorded from Aq Chah (N) summer/64 (BK).
14. Eremias velox (Pallas)  
E. v. velox. Northwestern Afghanistan, perhaps south to Seistan Basin. Recorded from Tajan River (NW) (LA) and New Gulran (NW) (LA).  
E. v. persica Blanford. Common in southern Afghanistan northeast to Paghman, up to 2 700 m elevation (LA).
15. Ophisops jerdoni Blyth snake-eyed lacertid  
Kabul River valley (LA).

#### Family Anguidae

1. Ophisaurus apodus (Pallas) sheltopusik  
Northern Afghanistan up to almost 3 000 m elevation. Recorded from Faizabad (NE) 2 653 m VIII/65 (LA).

## Family Varanidae

1. Varanus bengalensis (Daudin) Bengal monitor  
V. b. bengalensis. Kabul River valley, up to nearly 3 000 m elevation north of Jalalabad. Recorded from Jalalabad 2 600 m VIII/65 (LA), Kabul-Sarobi 1 200 m, 15 km E of Nimla (E) 1 200 m VII, VIII/64 (CC), Paghman, Jalalabad, Darunta, 80 km ESE of Jalalabad III-IV/66 (BK).
2. Varanus griseus (Daudin) desert monitor  
V. g. caspicus (Eichwald). Semi-desert areas of Murghab river, frequent at 400 m elevation and of Helmand basin and Harirud Valley. Recorded from Darya-i-Murghab River 400 m frequent (BK), Chah-i-Angir (S), 330 m 1950 (LA).

## Family Agamidae

1. Agama agilis Olivier agile agama  
A. a. isolepis Boulenger. Semi-arid regions of Afghanistan to about 2 500 m elevation. Recorded from Paghman 2 440 m VII/65, Maimanah 884 m IX/65, 100 km E of Faizabad (NE) VIII/65, Herat 1 000 m VIII/65 (LA), Herat 1 000 m VIII/64, Shindand (W), 30 km E of Farah (SW), 30 km E of Girishk (S), 30 km SE of Kandahar VII-VIII/64 (CC), 25 km N of Kandahar V/58 (OW), Chah-i-Angir (S) 330 m 1950 (LA), Bala-Murghab (NW) 420 m (GB), VI/64 (BK).
2. Agama agroreensis (Stoliczka)  
Kabul River valley to at least 2 000 m elevation. Recorded from Jalalabad 732 m (LA).
3. Agama badakhshana Anderson and Leviton  
Endemic for Afghanistan. Mazar-i-Sharif IX/65, 100 km east of Faizabad (NE) VIII/65, Paghman VII/65 (LA), Sanglich River (Pamir) 1978 (RP).
4. Agama caucasica (Eichwald) Caucasian agama  
A. c. caucasica. Afghanistan to 3 000 m elevation. Recorded from Paghman 2 440 m VII/65 (LA), 30 km N of Ghazni 1 400 m, Nairai (E) 2 700 m, 45 km NE of Gardez 2 200 m, Paghman 2 500 m VII-VIII/64 (CC), Ghazni IV/50, Paghman VIII/50 (LA).
5. Agama erythrogaster (Nikolsky)  
Northern Afghanistan, south through the mountain passes to Paghman, 1 000-2 700 m. Recorded from Maimanah 884 m VII/65, Paghman 2 440 m VII/65 (LA), Kharzar (Mazaradjat, C) VIII/57 (OW).
6. Agama himalayana (Steindachner)  
A. h. himalayana. Recorded from Ishkamish (Pamir) (LA), Sanglich River (Pamir) to 3 500 m elevation (RP). Also in the Hindu Kush (Terent'ev and Chernov).
7. Agama lehmanni (Nikolsky)  
Only recorded from Mazar-i-Sharif (457 m) IX/65 (LA).
8. Agama nupta De Filippi  
A. n. nupta. Afghanistan south of the Hindu Kush, up to 1 800 m elevation. Recorded from 50 km W of Dilaram, 832 m, Kandahar 1 425 m (LA), Nimla (E) 1 100 m E of Kabul VII/64 (CC), Jalalabad III/65, II-III/66 (BK), (GB), Farah (SW) IV/58 (OW).

9. Agama nuristanica Anderson and Leviton  
Endemic to Afghanistan. Only known from Kamdesh (Nuristan) at 1 342 m elevation X/65 (LA).
10. Agama rudrata Olivier  
A. r. rudrata. Southern Afghanistan to about 2 500 m elevation. Recorded from Ghazni 2 500 m, Charikar 1 800 m VIII/64 (CC).
11. Agama sanguinolenta (Pallas)  
Northern Afghanistan (Terent'ev and Chernov).
12. Agama tuberculata Hardwicke and Gray  
Doubtful record from Kabul (Smith, 1935), but also recorded from Jalalabad (GB).
13. Calotes versicolor (Daudin) Indian bloodsucker  
Only recorded from two localities in Afghanistan, highest at about 2 500 m elevation. Recorded from Kabul-Sarobi, 1 400 m VIII/64 (CC), Jalalabad II/65, 66 (BK).
14. Phrynocephalus clarkorum Anderson and Leviton  
Helmand River basin. Recorded from SE of Kandahar, 1 300 m VIII/64 (CC).
15. Phrynocephalus euptilopus Alcock and Finn  
Helmand Basin to the southeast of Darweshan (LA).
16. Phrynocephalus interscapularis Lichtenstein  
P. i. interscapularis. Lowlands between Andkhui and Mazar-i-Sharif in northern Afghanistan to 700 m elevation. Recorded from Aq Chah (Mazar-i-Sharif) 1964 (BK).
17. Phrynocephalus luteoguttatus Boulenger  
Helmand River basin up to about 1 300 m elevation. Recorded from 30 km SE of Kandahar 1 300 m VIII/64 (CC).
18. Phrynocephalus maculatus Anderson  
P. m. maculatus. Afghan-Baluch border region and Darweshan in Helmand basin (LA).
19. Phrynocephalus mystaceus (Pallas)  
P. m. galli Krassowsky. Sand dunes north of the Hindu Kush. Recorded from Aq Chah (N) summer/64 (BK).
20. Phrynocephalus ornatus Boulenger  
Helmand River basin. Recorded from 30 km E of Girishk (S) IV/58 (OW), 1 100 m VIII/64 (CC), Chah-i-Angir (S) 330 m 1950 (LA).
21. Phrynocephalus reticulatus Eichwald  
P. r. boettgeri Bedriaga. Northern lowlands of Afghanistan. Recorded from Aq Chah (N) summer/64 (BK).
22. Phrynocephalus scutellatus (Olivier)  
Southern Afghanistan to at least 2 400 m elevation. Recorded from SE of Kandahar 1 300 m, Ghazni-Mukur (E) 2 400 m VIII/64 (CC), Chah-i-Angir (S) 330 m 1950, Karabakh (C) (LA).

23. Uromastix asmusi (Strauch)

Single record from Afghan-Baluch border.

24. Uromastix hardwickii Gray

Indian spiny-tailed lizard

Dry clayey soils along Kabul River valley to 700 m elevation.

Recorded from 10 km ESE of Jalalabad 650 m II/66, IV/67 (BK).

## Family Typhlopidae

1. Typhlops vermicularis Merrem

Vermiform blind snake

One record only, north of Herat (LA).

## Family Leptotyphlopidae

1. Leptotyphlops blanfordi (Boulenger)

Kabul River valley (LA) and also recorded from Kuh-i-Malik Siah at the Afghanistan-Iran-Pakistan border (Alcock and Finn, 1896).

## Family Boidae

1. Eryx elegans (Gray)

Recorded from Paghman, 2 440 m, VIII/65 (LA).

2. Eryx johnii (Russell)

brown sand snake

Mundi (Hissar) to the south of Kandahar (Murray, 1892).

3. Eryx tataricus (Lichtenstein)

E. t. speciosus Tzarevsky. Northern Afghanistan, Paghman and Southern Afghanistan. Recorded from Paghman 2 440 m VII/65, Maimanah 884 m IX/65 (LA) Bala Murghab 600 m, 40 km SW Jalalabad III/65 (BK), Chah-i-Angir (LA).

## Family Colubridae

1. Boiga trigonata Smith

tree snake

B. t. melanocephala Annandale. Southern and western lowlands. Recorded from Chah-i-Angir (S) 330 m 1950 (LA).

2. Coluber harelinii Brandt

racer

Southern lowlands. Recorded from Chah-i-Angir (S) 330 m 1950 (LA), Aq Chah (Mazar-i-Sharif) summer/64 (BK), Bala Murghab 430 m III-IV (GB).

3. Coluber ravergieri Ménétries

racer

C. r. plumbens (Cerrrov). Northern and eastern part of Afghanistan between 700-2 700 m elevation. Recorded from Paghman 2 440 m VII/65 (LA), Kara Bakh (N of Kabul) (LA), Bamian 2 500 m 1940 (Smith).

4. Coluber rhodorachis (Jan)

racer

Lower elevations on both the north and south side of the Hindu Kush. Recorded from Kandahar 1 425 m XI/65, Paghman 2 440 m VII/65 (LA), 15 km SW of Kabul 2 200 m IX/50 (LA), Jalalabad summer/64, Aq Chah (Mazar-i-Sharif) summer/64 (BK).

5. Coluber vetromaculatus Gray and Hardwicke  
Boulenger, 1890 includes Afghanistan in the distribution but no documented reports (LA).  
Eirenis persica (Anderson) dwarf snake  
Not yet in Afghan records but occurring in neighbouring places of Iran and Pakistan.
6. Elaphe dione (Pallas) desert rat snake  
Bollu-Kuch 10 km SE of Kunduz.  
Lycodon striatus Asian wolf snake  
L. s. bicolor (Nikolsky). Not yet recorded from Afghanistan but only Iranian Seistan.
7. Lytorhynchus maynardi Alcock and Finn  
Desert basins of southern Afghanistan (LA). Recorded from the Afghan Baluchistan border (Koh-Malik-do-Khand) (Alcock and Finn, 1896).
8. Lytorhynchus ridgewayi Boulenger  
Northwestern and southern Afghanistan. Recorded from Chah-i-Angir (S), 330 m 1950 (LA), Chinkilok (Boulenger, 1887).
9. Matrix tessellata (Laurenti) diced snake  
N. t. tessellata. Afghanistan. Recorded from Mazar-i-Sharif 457 m IX/65, Paghman 2 440 m VII/65, Maimanah 884 m IX/65 (LA), Aq Chah (Mazar-i-Sharif) summer/64 (BK).
10. Oligodon arnensis (Shaw)  
Semi-deserts, 3 km southeast of Jalalabad 560 m III/65 (BK).
11. Oligodon taeniolatus (Jerdon)  
Found in the western Himalayas and recorded from Jalalabad (GB).
12. Psammophis leithii Günther  
Semi-desert, 8 km from Jalalabad 650 m III/66 (BK).
13. Psammophis lineolatus (Brandt)  
Afghanistan, desert areas. Recorded from Paghman, 2 440 m VII/65 (LA), Bala Murghab (NW) 400 m V/64, Jalalabad II/66, Kunduz V/67, Aq Chah (Mazar-i-Sharif) summer/64 (BK).
14. Psammophis schokari (Forsk.)  
Southern Afghanistan. Recorded from Chah-i-Angir (S). 330 m 1950 (LA), Helmand and Hamun to Khusan (Boulenger, 1896).
15. Ptyas mucosus (Linnaeus) Asian rat snake  
Afghanistan, including Kabul Valley and between Kabul and Kandahar. Recorded from Herat 1 800 m VIII/65, Kamdesh (E) 1 342 m X/65, Kandahar 1 425 m X/65, Maimanah 884 m IX/65 (LA) 40 km SW of Kabul 2 300 m IX/50 (LA).
16. Spalerosophis diadema (Schlegel)  
S. d. schirazana (Jan). Northern lowlands and southern deserts. Recorded from Maimanah 884 m IX/65; Paghman 2 440 m (LA) Jalalabad 560 m summer/65, IV/67 (BK).



17. Xenochrophis piscator (Schneider)

Collected 10 km south of Jalalabad 600 m summer/65, Darunta (E)  
II/66 (BK).

## Family Elapidae

1. Bungarus caeruleus (Schneider) krait

20 km E of Jalalabad 800 m semi-desert IV/66 (BK).

2. Naja oxiana (Eichwald) Asian cobra

Northwest and south Afghanistan. Recorded from northern slopes of  
Selsala-Kohi-Beni (Herat Province, 800 m) V/64 (BK), Jalalabad 732 m  
(LA) (GB).

## Family Viperidae

1. Agkistrodon halys (Pallas) Halys viper

A. h. caucasicus Nikolsky. One record from Sauzak Pass near Herat  
1949 (KP).

2. Agkistrodon himalayanus (Günther) Himalayan viper

One recorded from Wama, Nuristan 1948 (KP).

3. Echis carinatus (Schneider) saw-scaled viper

Lower elevations, both north and south of the Hindu Kush. Recorded  
from Kandahar, 1 425 m, XI/65 Chah-i-Angir (S) 330 m 1950 (LA),  
Jalalabad 620 m III/65 (BK).

4. Eristicophis macmahonii Alcock and Finn McMahon's viper

Southern deserts of Afghanistan in Registan and Dasht-i-Margo, below  
1 300 m (LA).

Pseudocerastes persicus (Duméril, Bibron and Duméril)

P. p. persicus. Not yet recorded from Afghanistan but recorded from  
neighbouring desert areas of Iran and Pakistan (LA).

5. Vipera lebetina (Linnaeus) Levante viper

V. l. turanica Cernov. Northwestern part of Afghanistan and Kabul  
River Valley. Recorded from Jalalabad, 732 m (LA).

Appendix 8

## AMPHIBIANS OF AFGHANISTAN

## ORDER CAUDATA

## Family Hynobiidae

1. Batrachuperus mustersi Smith

Endemic, only known from the mountain streams of the Paghman Mountains, 3 000 m (Smith, 1940).

## ORDER SALIENTIA

## Family Bufonidae

1. Bufo andersonii Boulenger

South of the Hindu Kush in SE Afghanistan and along the Helmand River. To 1 500 m elevation. Recorded from Qala-i-Kang (SW) XI/65, Paghman, Jalalabad 732 m, Kandahar 1 425 m (LA), Khost 1 400 m VII/64 (CC).

2. Bufo viridis Laurenti

Common in suitable places throughout Afghanistan to an elevation of 5 000 m in the Himalayas (LA).

## Family Ranidae

1. Rana cyanophlyctis Schneider

South of the Hindu Kush to elevation of 1 500 m. Recorded from Jalalabad, Khost (E), Dilaram (W) 823 m XI/65 (LA).

2. Rana ridibunda Pallas

R. r. ridibunda. North of the Hindu Kush as far south and east as Paghman; also known from Iranian Seistan; up to an elevation of 2 500 m. Recorded from Paghman 2 400 m, Herat 1 800 m VIII/65, Faizabad (NE) VIII/65 (LA), Jalalabad 750 m VII/64, Khost 1 400 m VII/65 (CC).

3. Rana sternosignata Murray

Southeastern Afghanistan, north to Kabul. Elevation between 1 400 and 2 800 m. Recorded from Paghman 2 440 m, Kandahar 1 425 m (LA), 50 km W of Khost 2 700 m (CC), Logar River (E of Kabul) 1 000 m X/50 (LA).

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# Appendix 4

## MAMMALS OF AFGHANISTAN

For the taxonomical background G.B. Corbett, 1978, 'The mammals of the Palaearctic Region, a taxonomic review', is followed except for the genus Ovis, where Nadler et al., 1973 are followed, who consider O. orientalis and O. ammon as two species.

Most of the information is from publications on collections made by J. Hassinger, J. Niethammer and J. Gaisler. For bats collections are made by J. Gaisler, D. Meyer Oehme and V. Aellen.

### ORDER INSECTIVORA

#### Family Erinaceidae

1. Hemiechinus auritus (Gmelin) long-eared hedgehog  
H. a. auritus Common in the marshes and semi-deserts of lowland northern, western and southern Afghanistan.  
H. a. megalotis (Blyth) Central and eastern mountains up to 3 000 m in altitude, common in Ab-i-Estada (JN).
2. Paraechinus hypomelas (Brandt) Brandt's hedgehog  
P. h. hypomelas. Uncommon and only below 1 700 m. Recorded from Paktia, Khost, Kandahar, Jalalabad (JN).

#### Family Soricidae

1. Crocidura pergrisea Miller  
C. p. pergrisea. Recorded from Afghanistan (Spitzenberger, 1971).
2. Crocidura russula (Hermann) greater white-toothed shrew  
C. r. gueldenstaedti (Pallas). Widespread in mountainous areas along streams, between 600-3 000 m elevation, also in Wakhan (Naumann).
3. Crocidura suaveolens (Pallas) lesser white-toothed shrew  
C. s. suaveolens. By Richter, 1970, considered as subspecies of C. russula. Northern and western steppes of Afghanistan, in humid places between 500-2 500 m elevation. Recorded from Kunduz, Mazar-i-Sharif and Herat (Richter).
4. Crocidura zarudnyi Ognev East-Persian white-toothed shrew  
C. z. zarudnyi. Southern lowlands, Iranian Seistan.  
C. z. streetorum Hassinger. Mountainous central and northeast Afghanistan up to 2 000 m elevation, widely distributed (JH).

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**NATIONAL PARKS AND WILDLIFE  
MANAGEMENT**

**AFGHANISTAN**

**A CONTRIBUTION TO A CONSERVATION STRATEGY**  
**Volume II: APPENDICES**



**UNITED NATIONS DEVELOPMENT PROGRAMME**



**FOOD AND AGRICULTURE ORGANIZATION  
OF THE UNITED NATIONS**

**ROME, 1981**

NATIONAL PARKS AND WILDLIFE MANAGEMENT

A F G H A N I S T A N

A CONTRIBUTION TO A CONSERVATION STRATEGY

Volume II: APPENDIXES

Report prepared for  
the Government of Afghanistan  
by  
the Food and Agriculture Organization of the United Nations  
acting as executing agency for  
the United Nations Development Programme

based on the work of

J.A. Sayer  
Team Leader/Ecologist  
and  
A.P.M. van der Zon  
National Park Planner

UNITED NATIONS DEVELOPMENT PROGRAMME  
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

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